

Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation(EU) No. 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: RTV560/DBT

Chemical nameDibutyltin dilaurateINDEX No.Not applicableCAS-No.77-58-7EC No.201-039-8

REACH Registration No. 01-2119496068-27-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Catalyst Industrial Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials GmbH Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Contact person : commercial.services@momentive.com

Telephone : General information

+390510924300 (Customer Service Centre)

1.4

Emergency telephone

number

: Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

(0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards Skin corrosion

	category 10	damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects.
Toxic to reproduction	Category 1B	H360FD: May damage fertility. May damage the

Category 1C

unborn child.

H314: Causes severe skin burns and eve

SDS_GB 1/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Specific Target Organ Toxicity -

Single Exposure

Category 1¹. H370: Causes damage to organs.

Target Organs

1. thymus

Environmental Hazards

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 1 H400: Very toxic to aquatic life.

H413: May cause long lasting harmful effects to

aquatic life.

2.2 Label Elements

Contains: Dibutyltin Dilaurate



Category 4

Signal Words:

Danger

Hazard Statement(s): H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction. H341: Suspected of causing genetic defects.

H360FD: May damage fertility. May damage the unborn child.

H370: Causes damage to organs.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash face, hands and any exposed skin thoroughly after

handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P310: Immediately call a POISON CENTER or doctor/ physician. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower]. P333+P313: If skin irritation or rash occurs: Get medical

advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P308+P313: IF exposed or concerned: Get medical advice/attention.

P391: Collect spillage.

Unknown toxicity - Health

Acute toxicity, oral 0 % Acute toxicity, dermal 0 % Acute toxicity, inhalation, vapor 0 %

SDS GB 2/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Acute toxicity, inhalation, dust

or mist

0 %

0 %

0 %

Unknown toxicity - Environment

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic 0 %

environment

Acute hazards to the aquatic

environment

0 % Chronic hazards to the aquatic

environment

Additional Information: No data available.

2.3 Other hazards

PBT/vPvB data

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria, Not fulfilling vPvB (very persistent/very bioaccummulative) criteria

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

General information: No data available. **Chemical name** Dibutyltin dilaurate **INDEX No.:** Not applicable

CAS-No.: 77-58-7 EC No.: 201-039-8

REACH Registration No.: 01-2119496068-27-XXXX

M-Factor: Not applicable

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Dibutyltin Dilaurate	50 - <100%	77-58-7	201-039-8	01- 2119496068- 27-XXXX	Aquatic Toxicity (Acute): 1	#

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by

SDS_GB 3/95

[#] This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

SECTION 4: First aid measures

General: Move into fresh air and keep at rest. Call a physician or poison control

center immediately. Seek medical attention for all burns, regardless how minor they may seem. Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory

protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If b CAUTION! First aid personnel must be aware of own risk during rescue!

4.1 Description of first aid measures

Inhalation: Move to fresh air. If respiratory problems, artificial respiration/oxygen. Get

medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Promptly wash eyes with plenty of water while lifting the eye lids. Obtain medical attention without delay, preferably from an

ophthalmologist.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly

remove clothing if soaked through and flush skin with water. Wash contaminated clothing before reuse. Call a physician or poison control

center immediately.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Call a

physician or poison control center immediately.

4.2 Most important symptoms

and effects, both acute and

delayed:

Gastrointestinal symptoms, including upset stomach. May cause burns of the gastrointestinal tract if swallowed. May cause chemical eye burns.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:

Corrosive to skin and eyes. May cause burns of the gastrointestinal tract if

swallowed.

Treatment: Flush thoroughly with water for at least 15 minutes. Get immediate medical

assistance. If medical assistance is not immediately available, flush an additional 15 minutes. Do not give victim anything to drink if he is

unconscious. If swallowed, do NOT induce vomiting. Give a glass of water.

Wash off promptly and flush contaminated skin with water. Promptly

remove clothing if soaked through and flush skin with water.

SECTION 5: Firefighting measures

General Fire Hazards: Do not use water jet as an extinguisher, as this will spread the fire. Use

water spray to keep fire-exposed containers cool.

5.1 Extinguishing media Suitable extinguishing

media:

Alcohol resistant foam. Carbon dioxide Dry chemical.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed.

5.3 Advice for firefighters

SDS GB 4/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Special fire-fighting procedures:

Take precautionary measures against static discharges. To prevent and minimize fire or explosion risk from static accumulation and discharge,

effectively bond and/or ground product transfer system.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment. Use only in well-ventilated

6.2 Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

6.3 Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Shovel up and place in a

container for salvage or disposal.

6.4 Reference to other sections:

Remove sources of ignition. In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Provide adequate ventilation. Avoid inhalation of dust

and vapors.

Keep container tightly closed. Keep away from sources of ignition - No Storage conditions:

smoking.

7.2 Conditions for safe storage,

including any incompatibilities: Keep container tightly closed. Keep away from sources of ignition - No

smoking.

Storage Stability: Material is stable under normal conditions.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Dibutyltin Dilaurate - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),
			as amended (12 2011)
	STEL	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),
			as amended (01 2020)

Biological Limit Values

None.

DNEL-Values

Critical component	Туре	Route of Exposure		Remarks
Dibutyltin Dilaurate	Workers	Dermal	1 mg/kg bw/day	

SDS_GB 5/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

	RTV560/DBT		
	Inhalation	0,07 mg/m3	
	Dermal	0,2 mg/kg bw/day	
	Inhalation	0,01 mg/m3	
Consume	rs Dermal	0,5 mg/kg bw/day	
	Inhalation	0,02 mg/m3	
	Ingestion	0,01 mg/kg bw/day	
	Dermal	0,08 mg/kg bw/day	
	Inhalation	0,003 mg/m3	
	Ingestion	0,002 mg/kg bw/day	

PNEC-Values

Critical component	Environmental		Remarks
	compartment		
Dibutyltin Dilaurate	Water	0,463 µg/l	
	Seawater	0,0463 µg/l	
	Intermittent release	4,63 µg/l	
	freshwatersediment	0,05 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	Saltwater Sediment	0,005 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	soil	0,0407 mg/kg	
	Sewage treatment plant	100 mg/l	
	Oral	0,2 mg/kg	

8.2 Exposure controls

Appropriate Engineering

Controls:

Provide eyewash station and safety shower. Use only with adequate

ventilation.

Individual protection measures, such as personal protective equipment

General information: Use only in well-ventilated areas. Do not eat, drink or smoke when using

the product. Wash hands after handling. Practice good housekeeping.

Eye/face protection: Face shield Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC). Neoprene.

This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email:

vertrieb@kcl.de).

Other: Safety shoes Wear suitable protective clothing, gloves and eye/face

protection.

Respiratory Protection: Respiratory protection mask with Filtertype ABEK Respirator with a vapour

filter (EN 141)

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental exposure

controls:

No release to wastewater from process as such, wastewater emissions limited to release generated from final equipment cleaning step using water

SECTION 9: Physical and chemical properties

SDS_GB 6/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Faint

Odor Threshold:

PH:

No data available.

Not applicable

Freezing point: 28,5 °C (other methods)

Boiling Point: 205 °C (1,013 hPa) (other methods)

Flash Point: 191 °C (other methods)

Evaporation Rate:

Flammability (solid, gas):

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure:

No data available.

1,043 g/cm3 (28,5 °C)

Relative density: No data available.

Solubility(ies)

Solubility in Water: <= 1,43 mg/l (20 °C) Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log

Pow: 4,44 ; pH 6,1 (OECD Test Guideline 107)

Autoignition Temperature: > 400 °C

Decomposition Temperature:

No data available.

Not classified

Oxidizing properties:

No data available.

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

10.4 Conditions to avoid: None known.

10.5 Incompatible Materials: Strong oxides. Strong bases.

10.6 Hazardous Decomposition

Products:

Carbon oxides Tin fumes.

SECTION 11: Toxicological information

SDS_GB 7/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Dibutyltin Dilaurate LD 50 (Rat): 2.071 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Dibutyltin Dilaurate LD 50 (Rat): > 2.000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Repeated dose toxicity

Product:

No data available. Specified substance(s)

Dibutyltin Dilaurate NOAEL (Rat(male and female), Oral, 28 d): 0,3 - 0,4 mg/l

> NOAEL (Rat(males), Oral, 28 d): 1,9 - 2,3 mg/l NOAEL (Rat(female), Oral, 28 d): 1,7 - 2,3 mg/l

Skin Corrosion/Irritation:

Product: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit):

Corrosive

Specified substance(s)

Dibutyltin Dilaurate (Rabbit): Severe skin irritation.

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

DibutyItin Dilaurate OECD Test Guideline 405 (Rabbit, 21 d): Strongly irritating. Irritating to

eyes.

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate Maximisation Test, OECD Test Guideline 406 (Guinea Pig): Sensitizer

Germ Cell Mutagenicity

SDS_GB 8/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

In vitro

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella

typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mammalian cytogenicity test (OECD 476): negative

In vivo

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Oral

(Mouse)positive The health hazard evaluation is based on the toxicological

properties of a similar material.

Carcinogenicity

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Components:

Dibutyltin Dilaurate No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

SDS_GB 9/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate Fresh water ; EC50 (Daphnia magna, 48 h): < 0,463 mg/l (OECD Test

Guideline 202)

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate Fresh water ; EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1

mg/I (OECD Test Guideline 201)

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate Biological degradability (39 d): 23 % The product is not readily

biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Dibutyltin Dilaurate No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Dibutyltin Dilaurate The product is not bioaccumulating.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Dibutyltin Dilaurate No data available.

SDS_GB 10/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

12.5 Results of PBT and vPvB

assessment: Dibutyltin Dilaurate Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB

(very persistent/very bioaccummulative) criteria

No data available.

12.6 Endocrine disrupting properties:

Product: The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Dibutyltin Dilaurate No data available.

12.7 Other adverse effects:

Other hazards

Product: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: See Section 8 for information on appropriate personal protective

equipment. The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the

ground.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

14.1 UN number or ID number: UN 1760

14.2 UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Dibutyltin Dilaurate)

14.3 Transport Hazard Class(es)

Class: 8
Label(s): 8
Hazard No. (ADR): 80
Tunnel restriction code: (E)

14.4 Packing Group: III

14.5 Environmental Hazards: Yes
Marine Pollutant Yes

ADN

14.1 UN number or ID number: UN 1760

14.2 UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Dibutyltin Dilaurate)

14.3 Transport Hazard Class(es)

Class: 8
Label(s): 8
14.4 Packing Group: III

14.5 Environmental Hazards: Yes
Marine Pollutant Yes

RID

14.1 UN number or ID number: UN 1760

14.2 UN Proper Shipping Name CORROSIVE LIQUID, N.O.S.(Dibutyltin Dilaurate)

SDS_GB 11/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

14.3 Transport Hazard Class(es)

Class: 8
Label(s): 8

14.4 Packing Group: III

14.5 Environmental Hazards: Yes
Marine Pollutant Yes

IMDG

14.1 UN number or ID number: UN 1760

14.2 UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(DibutyItin Dilaurate)

14.3 Transport Hazard Class(es)

Class: 8
Label(s): 8
EmS No.: F-A, S-B

14.4 Packing Group: III
14.5 Environmental Hazards: Yes
Marine Pollutant: Yes

IATA

14.1 UN number or ID number: UN 1760

14.2 Proper Shipping Name: Corrosive liquid, n.o.s.(Dibutyltin Dilaurate)

14.3 Transport Hazard Class(es):

Class: 8
Label(s): 8

14.4 Packing Group: III

14.5 Environmental Hazards: Yes
Marine Pollutant: Yes

14.6 Special precautions for user: This product is considered hazardous for transportation.

Momentive Performance Materials ships this material under Limited Quantity or Consumer Commodity provisions of the transport regulations. Dangerous for the environment Keep away

from food, foodstuff, acids and bases.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	100%

SDS_GB 12/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

The packaging shall be visibly, legibly and indelibly marked as follows: Restricted to professional users.

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	100%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	100%

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	100%

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
E1. Hazardous to the aquatic environment	100 t	200 t
H3. STOT SE	50 t	200 t
E1. Hazardous to the aquatic environment	100 t	200 t
H3. STOT SE	50 t	200 t

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
DibutyItin Dilaurate	77-58-7	100%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	100%

assessment:

15.2 Chemical safety

A Chemical Safety Assessment has been performed on this substance.

Inventory Status

Australia Industrial Chem. Act On or in compliance with the

Remarks: None.

(AIIC):

On or in compliance with the

Remarks: None.

Canada DSL Inventory List:

inventory

ivelliains. Inolic

Canada NDSL Inventory:

Not in compliance with the

Remarks: None.

China Inv. Existing Chemical

inventory.

On or in compliance with the Remarks: None.

Substances:

inventory

inventory

SDS_GB 13/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Japan (ENCS) List: On or in compliance with the

Korea Existing Chemicals Inv. (KECI): inventory

New Zealand Inventory of

Chemicals:

Philippines PICCS:

Taiwan Chemical Substance

Inventory:

US TSCA Inventory:

inventory

On or in compliance with the

On or in compliance with the

inventory

If purchased from Momentive REACH:

> Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other

reactants.

Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and

sources for data:

No data available.

Wording of the H-statements in section 2 and 3

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eve damage.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

Causes damage to organs. H370 Very toxic to aquatic life. H400

Very toxic to aquatic life with long lasting effects. H410 May cause long lasting harmful effects to aquatic life. H413

Training information: No data available.

Issue Date: 27.10.2022

SDS_GB 14/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrantyor quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

® and TM indicate trademarks owned by or licensed to Momentive.

Annex to the extended Safety Data Sheet (eSDS)

Content

Exposure Scenario 1. Manufacture of substance

Exposure Scenario 2. Formulation into mixture

Exposure Scenario 3. Industrial use, Process regulators (synthesis regulators) - Catalysts

Exposure Scenario 4. Additive premixing

Exposure Scenario 5. Manufacture of, Enamel

Exposure Scenario 6. Enameling and coating of electrical wire

Exposure Scenario 7. Professional use, Process regulators (synthesis regulators) -

Catalysts

Exposure Scenario 8. Consumer use, Process regulators (synthesis regulators) - Catalysts

Exposure Scenario 1.

Exposure scenario worker

1.Manufacture of substance

List of use descriptors	
Sector(s) of use	SU3: Industrial uses: Uses of substances as such or in

SDS_GB 15/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT		
	preparations at industrial sites	
	SU8: Manufacture of bulk, large scale chemicals (including petroleum products)	
	SU9: Manufacture of fine chemicals	
Product categories [PC]:		
Name of contributing environmental scenario and corresponding ERC	Manufacture of substance: ERC1: Manufacture of the substance	

T. 4. 6	N. C. C. L.
List of names of contributing worker scenarios and corresponding PROCs	Manufacture of substance: PROC1: Use in closed process, no likelihood of exposure
seciminos una corresponding Trees	TROCT. Use in closed process, no incliniod of exposure
	PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC8b: Transfer of substance or preparation
	The cost frame of sacstance of preparation

(charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9: Transfer of substance or mixture into small

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

2.1.Contributing exposure scenario controlling environmental exposure for: Manufacture of substance

Product characteristics

Physical state	liquid
Viscosity:	

Viscosity:	
Kinematic viscosity:	This information is not available.
Dynamic viscosity:	This information is not available.

Amounts used

Annual amount per site	33 tonnes/year Manufacture of the substance
Fraction of EU tonnage used in	1 Manufacture of the substance
region:	

SDS_GB 16/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

Batch process:	3 Emission days Manufacture of the substance
Continuous process:	330 Emission days, Hazardous waste incineration.

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	172.000,000 m3/d
Local freshwater dilution factor	1.000
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

trino	Emission days	Emission factors			Remarks
type Emission days	Air	Soil	Water	Remarks	
Intermittent release	3	5 %	0,01 %	6 %	Manufacture of the substance
Continuous release	330	0,01 %	-	0,01 %	Hazardous waste incineration.

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	Exhaust air scrubber.
Soil	not relevant
Water	Ensure all waste water is collected and treated via a WWTP.
Sediment:	not relevant
Remarks:	not relevant

Organisational measures to prevent/limit release from site:

none			
none			

SDS_GB 17/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Conditions and measures related to sewage treatment plant

Size of municipal sewage system/treatment plant (m³/d):		
type:	industrial, municipal	
Discharge rate:	1.000 m3/d	
Treatment effectiveness:	99 %	
Sludge treatment technique:	Incineration	
Measures to limit air emissions:	not relevant	
Remarks:	not relevant	

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Hazardous waste incineration.		

Conditions and measures related to external recovery of waste

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling worker exposure for: Manufacture of substance

Process Categories:	PROC1: Use in closed process, no likelihood of exposure
	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Product characteristics

Concentration of the substance in a	Covers percentage substance in the product up to 100 %
mixture:	(unless stated differently).

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	25 °C

SDS_GB 18/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT		
Remarks	not relevant	

Amounts used

Maximum daily site tonnage	11.000 kg On-site
(kg/day):	

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure time	30 - 120	4 - 5 days per week	PROC1
	min		
Exposure time	15 min		PROC4
Exposure time	240 - 480	4 - 5 days per week	PROC8b
	min		
Exposure time	480 min		PROC9

Human factors not influenced by risk management

Exposed skin areas:		
Palm of one hand	240 cm² PROC1	
Palm of both hands	480 cm² PROC4	
Both hands	960 cm² PROC8b PROC9	

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use			10	All relevant Process Categories

Other relevant operational conditions:	Respiration: 30 m³/day
	Body weight:: 70 kg
	Room volume: 100 - 1000 m3. Use in closed process, no
	likelihood of exposure Transfer of substance or mixture
	(charging and discharging) at dedicated facilities
	Room volume: 1000 m ³ . Use in batch and other process
	(synthesis) where opportunity for exposure arises Transfer
	of substance or mixture into small containers (dedicated
	filling line, including weighing)
	Process temperature: 50 - 150 °C. Use in batch and other
	process (synthesis) where opportunity for exposure arises
	Process temperature: 60 °C. Transfer of substance or
	mixture into small containers (dedicated filling line,
	including weighing)

SDS_GB 19/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	Containment measures required		All relevant Process Categories
	Inhalation	with local exhaust ventilation	90 %	PROC4, PROC9

Organisational measures to prevent/limit releases, dispersion and exposure

Application	Route of Exposure	Protective Measures	Remarks
Industrial:	Inhalation, Dermal	Specific workers training in use of personal protective equipment	All relevant Process Categories

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
	Inhalation	Wear respirator if there is dust formation.		All relevant Process Categories
	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories
	Dermal	Wear suitable protective clothing., Wear eye protection/face protection.		All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

SDS_GB 20/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

3. Exposure estimation

Environment:

Manufacture of substance:

ERC1:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,345 ng/L	< 0,01	EUSES	
freshwater sediment	0,0375 µg/kg wwt	< 0,01	EUSES	
Saltwater	0,0 mg/l	< 0,01	EUSES	
Saltwater Sediment	0,0 mg/kg wwt	< 0,01	EUSES	
Soil	0,903 µg/kg wwt	0,02	EUSES	
Sewage treatment plant	0,03 mg/l	< 0,01	EUSES	

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	15,6 ng/L	0,03	EUSES	Hazardous waste incineration.none
freshwater sediment	1,7 µg/kg wwt	0,03	EUSES	Hazardous waste incineration. none
Saltwater	1,56 ng/L	0,03	EUSES	Hazardous waste incineration.none
Saltwater Sediment	0,17 µg/kg wwt	0,03	EUSES	Hazardous waste incineration. none
Soil	3,4 µg/kg wwt	0,08	EUSES	Hazardous waste incineration. none
Sewage treatment plant	0,157 μg/l	< 0,01	EUSES	Hazardous waste incineration.none

SDS_GB 21/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Manufacture of substance:

PROC1:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, including modificatio n factor for exposure duration	0,00 μg/m³	0,00	StoffenMan ager (inhalation exposure), Handling of product in tightly closed containers	none
Worker - dermal, long-term - systemic	Indoor, including modificatio n factor for use of appropriate dermal protection, including modificatio n factor for exposure duration	0,0343 mg/kg bw/day	0,172	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,172		none

PROC4:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation	0,81 μg/m³	0,081	Used ART model., Activities with open liquid surfaces or open reservoirs - activity with agitated surfaces	none
Worker - dermal, long-term - systemic	Indoor, including modificatio n factor for	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none

SDS_GB 22/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV:	560/DBT	
	use of appropriate dermal protection, including modificatio n factor for exposure duration, With local exhaust ventilation			
Worker - combined, long-term - systemic			0,424	none

PROC8b:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation	0,00 mg/m³	0,00	StoffenMan ager (inhalation exposure), Handling of product in tightly closed containers	none
Worker - dermal, long-term - systemic	Indoor, including modificatio n factor for use of appropriate dermal protection, With local exhaust ventilation	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,343		none

PROC9:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation	0,0039 mg/m³	0,39	Used ART model., Transfer of liquid products -	none

SDS_GB 23/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT					
				falling liquids	
Worker - dermal, long-term - systemic	Indoor, including modification factor for use of appropriate dermal protection, With local exhaust ventilation	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,733		none

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 2.

Exposure scenario worker

1.Formulation into mixture

List of use descriptors				
Sector(s) of use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites			
	SU10: Formulation [mixing] of preparations and/or repackaging (excluding alloys)			
Product categories [PC]:	PC1: Adhesives, sealants			
	PC9a: Coatings and paints, thinners, paint removers			
	PC26: Paper and board treatment products			
	PC32: Polymer preparations and compounds			
	PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids			

SDS_GB 24/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT		
scenario and corresponding ERC	ERC2: Formulation into mixture (mixtures)	
•		

List of names of contributing worker	Formulation into mixture:
scenarios and corresponding PROCs	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC5: Mixing or blending in batch processes
	PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at
	dedicated facilities
	DDOCO: Transfer of substance or minture into anoth
	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
	Tomas (Statemen ming me, memoring weighing)

2.1.Contributing exposure scenario controlling environmental exposure for: Formulation into mixture

Product characteristics

Physical state	liquid
Viscosity:	
Kinematic viscosity:	This information is not available.
Dynamic viscosity:	This information is not available.

Amounts used

Annual amount per site	3,65 tonnes/year Formulation into mixture
Daily amount per site	10 kg

Frequency and duration of use

Batch process:	not relevant
Continuous process:	365 Emission days, Formulation into mixture

SDS_GB 25/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	172.000,000 m3/d
Local freshwater dilution factor	1.000
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

type	Emission days	Emission factors			Remarks
type	Emission days	Air	Soil	Water	Kemarks
Intermittent release	10	0 %	0 %	0,001 %	

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	Exhaust air scrubber., Incineration Effectiveness: 100 %.
Soil	not relevant
Water	Ensure all waste water is collected and treated via a WWTP.
Sediment:	not relevant
Remarks:	not relevant

Organisational measures to prevent/limit release from site:

none

Conditions and measures related to sewage treatment plant

Size of municipal sewage system/treatment plant (m³/d):		
type:	municipal, industrial	
Discharge rate:	1.000 m3/d	
Treatment effectiveness:	99 %	
Sludge treatment technique:	Incineration	
Measures to limit air emissions:	not relevant	

SDS_GB 26/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT	
Remarks:	not relevant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Hazardous waste incineration.		

Conditions and measures related to external recovery of waste

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling worker exposure for: Formulation into mixture

Process Categories:	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC5: Mixing or blending in batch processes
	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Product characteristics

Concentration of the substance in a	Covers percentage substance in the product up to 5 %.
mixture:	

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	25 °C
Remarks	not relevant

SDS_GB 27/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Amounts used

Amounts used	10 kilograms per day Formulation
--------------	----------------------------------

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure time	30 - 120	4 - 5 days per week	PROC1
	min		
Exposure time	15 - 60 min	4 - 5 days per week	PROC2, PROC3, PROC4, PROC5,
			PROC8b, PROC9

Human factors not influenced by risk management

Exposed skin areas:

Palm of one hand	240 cm² PROC1 PROC3
Palm of both hands	480 cm² PROC2 PROC4 PROC5

Both hands	960 cm² PROC8b PROC9
------------	----------------------

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use			10	All relevant Process Categories

Other relevant operational conditions:	Respiration: 30 m³/day
	Body weight:: 70 kg
	Room volume: 100 - 1000 m3

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation	Provide adequate ventilation.		All relevant Process Categories
	Inhalation	Indoor, with local exhaust ventilation	> 95 %	All relevant Process Categories

SDS_GB 28/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Organisational measures to prevent/limit releases, dispersion and exposure

Application	Route of Exposure	Protective Measures	Remarks
Industrial:	Dermal, Inhalation	Specific workers training in use of personal protective equipment	All relevant Process Categories

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
	Inhalation	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.		All relevant Process Categories
	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories
	Dermal	Wear suitable protective clothing.		All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

3. Exposure estimation

Environment:

Formulation into mixture:

ERC2:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,114 μg/l	0,25	EUSES	
freshwater sediment	0,0124 mg/kg wwt	0,25	EUSES	
Saltwater	0,0114 μg/l	0,25	EUSES	
Saltwater Sediment	1,24 µg/kg wwt	0,25	EUSES	

SDS_GB 29/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT							
Soil	0,0245 mg/kg wwt	0,6	EUSES				
Sewage treatment plant	1,15 μg/l	< 0,01	EUSES				

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,0156 μg/l	0,03	EUSES	
freshwater sediment	1,7 µg/kg wwt	0,03	EUSES	
Saltwater	1,56 ng/L	0,03	EUSES	
Saltwater Sediment	0,17 µg/kg wwt	0,03	EUSES	
Soil	3,4 µg/kg wwt	0,08	EUSES	
Sewage treatment plant	0,157 μg/l	< 0,01	EUSES	

SDS_GB 30/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Formulation into mixture:

PROC1:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Without local exhaust ventilation, including modificatio n factor for exposure duration	0,00 mg/m³	0,00	StoffenMan ager (inhalation exposure), Handling of product in tightly closed containers	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, including modificatio n factor for exposure duration, Without local exhaust ventilation, Including modificatio n factor for concentrati on in product	0,0034 mg/kg bw/day	0,017	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,017		none

PROC2:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, Indoor, Including modificatio	5,26 μg/m³	0,526	ECETOC TRA worker v3	none

SDS_GB 31/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT		
	n factor for concentrati on in product, including modificatio n factor for exposure duration				
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product	0,0137 mg/kg bw/day	0,0685	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,595		none

PROC3:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	5,26 μg/m³	0,526	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for	0,0034 mg/kg bw/day	0,017	ECETOC TRA worker v3	none

SDS_GB 32/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT	· ·	
	use of appropriate dermal protection, With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	KIV	300/DB1		
Worker - combined, long-term - systemic			0,543		none

PROC4:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	5,26 μg/m³	0,526	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, With local exhaust ventilation, including modificatio	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none

SDS_GB 33/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV:	560/DBT	
	n factor for exposure duration, Including modificatio n factor for concentrati on in product			
Worker - combined, long-term - systemic			0,869	none

PROC5:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	5,26 μg/m³	0,526	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	0,0069 mg/kg bw/day	0,0345	ECETOC TRA worker v3	none

SDS_GB 34/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RIV560/DBI							
Worker - combined,			0,516		none		
long-term - systemic							

PROC8b:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, including modification factor for exposure duration	5,26 μg/m³	0,526	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic	Including modificatio n factor for concentrati on in product		0,869		none

PROC9:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, including	5,26 μg/m³	0,526	ECETOC TRA worker v3	none

SDS_GB 35/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT		
	modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product				
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, With local exhaust ventilation, including modificatio n factor for exposure duration, Including modificatio n factor for concentrati on in product	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,869		none

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 3.

Exposure scenario worker

1.Industrial use, Process regulators (synthesis regulators) - Catalysts

List of use descriptors

SDS_GB 36/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT SU5: Manufacture of textiles, leather, fur Sector(s) of use SU6a: Manufacture of wood and wood products SU6b: Manufacture of pulp, paper and paper products SU9: Manufacture of fine chemicals SU10: Formulation [mixing] of preparations and/or repackaging (excluding alloys) SU11: Manufacture of rubber products SU12: Manufacture of plastics products, including compounding and conversion SU15: Manufacture of fabricated metal products, except machinery and equipment SU16: Manufacture of computer, electronic and optical products, electrical equipment SU17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment SU18: Manufacture of furniture SU19: Building and construction work PC1: Adhesives, sealants **Product categories [PC]:** PC9a: Coatings and paints, thinners, paint removers PC14: Metal surface treatment products PC15: Non-metal surface treatment products PC19: Intermediate (precursor) PC31: Polishes and wax blends PC32: Polymer preparations and compounds PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids PC35: Washing and cleaning products PC0: Other

Name of contributing environmental	Industrial use, Process regulators (synthesis regulators) -
scenario and corresponding ERC	<u>Catalysts:</u>

SDS_GB 37/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

ERC3: Formulation in materials

ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC5: Industrial use resulting in inclusion into or onto a matrix

ERC6b: Industrial use of reactive processing aids

ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

List of names of contributing worker scenarios and corresponding PROCs

Industrial use:

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletisation

SDS_GB 38/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

2.1.Contributing exposure scenario controlling environmental exposure for: Industrial use, Process regulators (synthesis regulators) - Catalysts

	, <u>, </u>					
Product characteristics						
Physical state		liqu	uid			
Viscosity:						
Kinematic viscosity:		Thi	is informati	on is not	available.	
Dynamic viscosity:		Thi	is informati	on is not	available.	
Amounts used						
Annual amount per site		or of into	ctive proce onto article o/onto artic	essing aid) Use at in the Use of the process	at industrial reactive	o solid matrix Use of non- ial site (no inclusion into site leading to inclusion process regulators in strial site (inclusion or not
Annual amount per site			0,365 tonnes/year Use of reactive processing aid at industrial site (no inclusion into or onto article)			
Fraction of EU tonnage used in region:			1			
Frequency and duration of use						
rrequency and duration of	use					
Batch process:		not	relevant			
Continuous process:			5 Emission	davs		
process process and						
Environment factors not in	fluenced by ris	sk n	nanagemer	nt		
Flow rate of receiving surface water (m³/d):		not relevant				
Local freshwater dilution factor			not relevant			
Local marine water dilution factor		not relevant				
				_		
Other given operational con	nditions affect	ing e	environme	ntal exp	osure	
		ı	Emission	factors		
type	Emission day	/ S	Air	Soil	Water	Remarks

SDS_GB 39/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

	RTV560/DBT						
Continuous release	365	0 %	0 %	-	Formulation into solid matrix Use of non-reactive processing aid at industrial site (no inclusion into or onto article) Use at industrial site leading to inclusion into/onto article Use of reactive processing aid at industrial site (no inclusion into or onto article) Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)		
Continuous release	330	0,01 %	-	0,01 %	Hazardous waste incineration.		

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	Air emission abatement not specifically required for this substance.
Soil	not relevant
Water	Ensure all waste water is collected and treated via a WWTP.
Sediment:	not relevant
Remarks:	not relevant

Organisational measures to prevent/limit release from site:

none				
------	--	--	--	--

SDS_GB 40/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Conditions and measures related to sewage treatment plant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Hazardous waste incineration.		

Conditions and measures related to external recovery of waste

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

SDS_GB 41/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

2.2. Contributing exposure scenario controlling worker exposure for: Industrial use, Process regulators (synthesis regulators) - Catalysts

Process Categories:	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC5: Mixing or blending in batch processes
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
	PROC10: Roller application or brushing
	PROC13: Treatment of articles by dipping and pouring
	PROC14: Production of preparations or articles by

tabletting, compression, extrusion, pelletisation

SDS_GB 42/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Product characteristics

Concentration of the substance in a	1% solution			
mixture:	Use in closed process, no likelihood of exposure			
	Use in closed, continuous process with occasional controlled exposure			
	Use in closed batch process (synthesis or formulation)			
	Use in batch and other process (synthesis) where			
	opportunity for exposure arises			
	Mixing or blending in batch processes			
	Roller application or brushing			
	Treatment of articles by dipping and pouring			
	Production of preparations or articles by tabletting,			
	compression, extrusion, pelletisation			
	Covers percentage substance in the product up to 5 %.			
	Transfer of substance or preparation (charging/discharging)			
	from/to vessels/large containers at non-dedicated facilities			

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	25 °C
Remarks	not relevant

Amounts used

Maximum daily site tonnage (kg/day):	1 kg Industrial use of reactive processing aids
Amounts used	850 tonnes/year

SDS_GB 43/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure time	240 - 480	1 Exposure time per	All relevant Process Categories
	min	day	

Human factors not influenced by risk management

Exposed skin areas:

Post a silli wites:	
Palm of one hand	240 cm² PROC1 PROC3 PROC13
Palm of both hands	480 cm² PROC2 PROC4 PROC5 PROC10 PROC14
Both hands	960 cm² PROC8b PROC9

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use			10	All relevant Process Categories

Other relevant operational conditions:	Respiration: 30 m³/day
	Body weight:: 70 kg
	Room volume: > 1000 m3

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation	Provide adequate ventilation.		All relevant Process Categories
	Inhalation	Indoor, with local exhaust ventilation	> 95 %	All relevant Process Categories

SDS_GB 44/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Organisational measures to prevent/limit releases, dispersion and exposure

Application	Route of Exposure	Protective Measures	Remarks
Industrial:	Dermal, Inhalation	Specific workers training in use of personal protective equipment	All relevant Process Categories

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
	Inhalation	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.	90 %	All relevant Process Categories
	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories
	Dermal	Wear suitable protective clothing.		All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

3. Exposure estimation

Environment:

Industrial use, Process regulators (synthesis regulators) - Catalysts:

ERC3, ERC4, ERC5, ERC6d:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,145 μg/l	0,31	EUSES	
freshwater sediment	0,0158 mg/kg wwt	0,31	EUSES	
Saltwater	0,0145 µg/l	0,32	EUSES	
Saltwater Sediment	1,58 µg/kg wwt	0,32	EUSES	

SDS_GB 45/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT						
Soil	0,0313 mg/kg wwt	0,77	EUSES			
Sewage treatment plant	1,46 μg/l	< 0,01	EUSES			

ERC6b:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,0624 ng/L	< 0,01	EUSES	
freshwater sediment	0,0068 µg/kg wwt	< 0,01	EUSES	
Saltwater	0,0099 ng/L	< 0,01	EUSES	
Saltwater Sediment	0,0011 µg/kg wwt	< 0,01	EUSES	
Soil	0,0134 µg/kg wwt	< 0,01	EUSES	
Sewage treatment plant	0,628 ng/L	< 0,01	EUSES	

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,0405 μg/l	0,09	EUSES	Hazardous waste incineration.none
freshwater sediment	4,42 µg/kg wwt	0,09	EUSES	
Saltwater	4,05 ng/L	0,09	EUSES	
Saltwater Sediment	0,442 µg/kg wwt	0,09	EUSES	
Soil	8,85 µg/kg wwt	0,22	EUSES	
Sewage treatment plant	0,408 μg/l	< 0,01	EUSES	

SDS_GB 46/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Industrial use, Process regulators (synthesis regulators) - Catalysts:

PROC1:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Without local exhaust ventilation, Including modification factor for concentration in product, Respiratory protection	2,63 μg/m³	0,26	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,0034 mg/kg bw/day	0,017	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,28	ECETOC TRA worker v3	none

PROC2:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory	2,63 μg/m³	0,263	ECETOC TRA worker v3	none

SDS_GB 47/95



worker v3

Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT protection Worker - dermal, 0,0137 0,069 **ECETOC** including none mg/kg long-term - systemic modificatio TRA bw/day n factor for worker v3 use of appropriate dermal protection, Including modificatio n factor for concentrati on in product Worker - combined, 0,332 **ECETOC** none TRA long-term - systemic

PROC3:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	2,63 μg/m³	0,26	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,0034 mg/kg bw/day	0,017	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,28	ECETOC TRA worker v3	none

SDS_GB 48/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

PROC4:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	2,63 µg/m³	0,263	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,606	ECETOC TRA worker v3	none

PROC5:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	2,63 μg/m³	0,263	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio	0,0069 mg/kg	0,035	ECETOC TRA	none

SDS_GB 49/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT		
	n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	bw/day		worker v3	
Worker - combined, long-term - systemic			0,298	ECETOC TRA worker v3	none

PROC8a:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	5,26 μg/m³	0,526	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,0137 mg/kg bw/day	0,069	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,595	ECETOC TRA worker v3	none

PROC10:

Specific	Exposur	RCR	Method	Remarks

SDS_GB 50/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

DT/	/560	/NRT

	condition	e level			
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	2,63 μg/m³	0,263	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,1371 mg/kg bw/day	0,686	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,949	ECETOC TRA worker v3	none

PROC13:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	2,63 μg/m³	0,263	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none

SDS_GB 51/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV:	560/DBT		
	appropriate dermal protection, Including modificatio n factor for concentrati on in product				
Worker - combined, long-term - systemic			0,606	ECETOC TRA worker v3	none

PROC14:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Indoor, With local exhaust ventilation, Including modificatio n factor for concentrati on in product, Respiratory protection	2,63 μg/m³	0,263	ECETOC TRA worker v3	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,0343 mg/kg bw/day	0,172	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,435	ECETOC TRA worker v3	none

SDS_GB 52/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 4.

1.Additive premixing

Exposure scenario worker

1.Additive premixing	
List of use descriptors	
Sector(s) of use	SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Product categories [PC]:	PC32: Polymer preparations and compounds
Name of contributing environmental scenario and corresponding ERC	Additive premixing: ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
List of names of contributing worker scenarios and corresponding PROCs	Additive premixing: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
2.1.Contributing exposure scenario cont	rolling environmental exposure for: Additive premixing
Product characteristics	
Physical state	liquid
Viscosity:	
Kinematic viscosity:	This information is not available.
Dynamic viscosity:	This information is not available.

SDS_GB 53/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Amounts used

Annual amount per site	100 tonnes/year
Fraction of EU tonnage used in region:	1

Frequency and duration of use

Batch process:	not relevant
Continuous process:	100 Emission days

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	not relevant
Local freshwater dilution factor	not relevant
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

tyme	Emission days	Emission	factors		Remarks
type	Emission days	Air	Soil	Water	Kemarks
Intermittent release	100	0 %	0 %	-	

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	not relevant	
Soil	not relevant	
Water	Ensure all waste water is collected and treated via a WWTP.	
Sediment:	not relevant	
Remarks:	not relevant	

SDS_GB 54/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Organisational measures to prevent/limit release from site:	

none

Conditions and measures related to sewage treatment plant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Hazardous waste incineration.		

Conditions and measures related to external recovery of waste

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling worker exposure for: Additive premixing

Process Categories:	PROC4: Use in batch and other process (synthesis) where	
	opportunity for exposure arises	

Product characteristics

Amounts used

Concentration of the substance in a	Covers percentage substance in the product up to 5 %.
mixture:	

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	15 - 25 °C
Remarks	not relevant

SDS_GB 55/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure time	480 min	Exposure time per day	PROC4

Human factors not influenced by risk management

Exposed skin areas:

Palm of both hands	480 cm² PROC4
--------------------	---------------

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use	1.000 m3		10	

Other relevant operational conditions:	Respiration: 30 m³/day
	Body weight:: 70 kg
	Process temperature: 15 - 25 °C

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation	Provide adequate ventilation.		All relevant Process Categories
	Inhalation	Indoor, with local exhaust ventilation	> 90 %	All relevant Process Categories

SDS_GB 56/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Organisational measures to prevent/limit releases, dispersion and exposure

Application	Route of Exposure	Protective Measures	Remarks
Industrial:	Dermal, Inhalation	Specific workers training in use of personal protective equipment	All relevant Process Categories

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

3. Exposure estimation

Environment:

Additive premixing:

ERC6d:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,156 μg/l	0,34	EUSES	
freshwater sediment	0,017 mg/kg wwt	0,34	EUSES	
Saltwater	0,0156 μg/l	0,34	EUSES	
Saltwater Sediment	1,7 µg/kg wwt	0,34	EUSES	
Soil	0,0336 mg/kg wwt	0,83	EUSES	

SDS_GB 57/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT				
Sewage treatment	1,57	< 0,01	EUSES	
plant	μg/l			

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,0405 µg/l	0,09	EUSES	Hazardous waste incineration. none
freshwater sediment	4,42 µg/kg wwt	0,09	EUSES	
Saltwater	4,05 ng/L	0,09	EUSES	
Saltwater Sediment	0,442 µg/kg wwt	0,09	EUSES	
Soil	8,85 µg/kg wwt	0,22	EUSES	
Sewage treatment plant	0,408 μg/l	< 0,01	EUSES	

SDS_GB 58/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Additive premixing:

PROC4:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product, With local exhaust ventilation	0,0026 mg/m³	0,26	Used ART model., Activities with open liquid surfaces or open reservoirs - activity with agitated surfaces	none
Worker - dermal, long-term - systemic	Including modificatio n factor for concentrati on in product, including modificatio n factor for use of appropriate dermal protection	0,0686 mg/kg bw/day	0,343	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,603		none

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 5.

Exposure scenario worker

1.Manufacture of, Enamel

List of use descriptors

SDS_GB 59/95



Batch process:

Continuous process:

Version: 3.0

Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

mining possisminos	Supersedes Date: 06.10.2022
	RTV560/DBT
Sector(s) of use	SU9: Manufacture of fine chemicals
Product categories [PC]:	
Name of contributing environmental	Manufacture of, Enamel:
scenario and corresponding ERC	ERC2: Formulation into mixture (mixtures)
List of names of contributing worker	Manufacture of:
scenarios and corresponding PROCs	PROC1: Use in closed process, no likelihood of exposure
	PROC3: Use in closed batch process (synthesis or
	formulation)
	PROC5: Mixing or blending in batch processes
	PROC8a: Transfer, of substance, or preparation
	non-dedicated facilities
	PPOCO: Transfer of substance or mixture into small
	containers (dedicated filling line, including weighing)
	PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers non-dedicated facilities PROC9: Transfer of substance or mixture into small

2.1.Contributing exposure scenario controlling environmental exposure for: Manufacture of, Enamel

Physical state | liquid | Viscosity: | This information is not available. | Dynamic viscosity: | This information is not available. | Amounts used | 100 tonnes/year | Frequency and duration of use

SDS_GB 60/95

not relevant

100 Emission days



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	not relevant
Local freshwater dilution factor	not relevant
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

typo	Emission days Emission factors		Remarks		
Emission days	Air	Soil	Water	Kemarks	
Intermittent release	10	0 %	0 %	-	

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	not relevant
Soil	not relevant
Water	Ensure all waste water is collected and treated via a WWTP.
Sediment:	not relevant
Remarks:	not relevant

Organisational measures to prevent/limit release from site:

none

Conditions and measures related to sewage treatment plant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Hazardous waste incineration.		

Conditions and measures related to external recovery of waste

SDS_GB 61/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling worker exposure for: Manufacture of, Enamel

Process Categories:	PROC1: Use in closed process, no likelihood of exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC5: Mixing or blending in batch processes
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Product characteristics

Concentration of the substance in a mixture:	1 % dermal exposure
	0.1 - 0.5 % inhalation exposure

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	15 - 25 °C
Remarks	not relevant

Amounts used	

SDS_GB 62/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure time	480 min	1 Exposure time per day	PROC8a

Human factors not influenced by risk management

Exposed skin areas:

Palm of one hand	240 cm² PROC1 PROC3

Palm of both hands	480 cm ² PROC5
--------------------	---------------------------

Both hands	960 cm² PROC8a PROC9
------------	----------------------

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use	300 m3		10	All relevant Process Categories

Other relevant operational conditions:	Respiration: 30 m³/day
	Body weight:: 70 kg
	Process temperature: 15 - 25 °C . Transfer of substance or
	preparation (charging/discharging) from/to vessels/large
	containers at non-dedicated facilities

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation	Provide adequate ventilation.		All relevant Process Categories
	Inhalation	Indoor, with local exhaust ventilation	> 90 %	PROC8a

SDS_GB 63/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Organisational measures to prevent/limit releases, dispersion and exposure

Application	Route of Exposure	Protective Measures	Remarks
Industrial:	Dermal, Inhalation	Specific workers training in use of personal protective equipment	All relevant Process Categories

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

3. Exposure estimation

Environment:

Manufacture of, Enamel:

ERC2:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,156 μg/l	0,34	EUSES	
freshwater sediment	0,017 mg/kg wwt	0,34	EUSES	
Saltwater	0,0156 μg/l	0,34	EUSES	
Saltwater Sediment	1,7 µg/kg wwt	0,34	EUSES	
Soil	0,0336 mg/kg wwt	0,83	EUSES	

SDS_GB 64/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT					
Sewage treatment plant	1,57 μg/l	< 0,01	EUSES		

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,0405 µg/l	0,09	EUSES	
freshwater sediment	4,42 µg/kg wwt	0,09	EUSES	
Saltwater	4,05 ng/L	0,09	EUSES	
Saltwater Sediment	0,442 µg/kg wwt	0,09	EUSES	
Soil	8,85 µg/kg wwt	0,22	EUSES	
Sewage treatment plant	0,408 µg/l	< 0,01	EUSES	

SDS_GB 65/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Manufacture of, Enamel:

PROC8a:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product, With local exhaust ventilation	0,29 μg/m³	0,029	Used ART model., Transfer of liquid products - falling liquids	All relevant Process Categories covered with this PROC
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product, With local exhaust ventilation	0,0137 mg/kg bw/day	0,069	ECETOC TRA worker v3	All relevant Process Categories covered with this PROC
Worker - combined, long-term - systemic			0,098		All relevant Process Categories covered with this PROC
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product, With local exhaust ventilation, Manufactur ing equipment cleaning, Manufactur ing	0,033 μg/m³	0,0033	Used ART model., Manufacturi ng equipment maintenanc e	All relevant Process Categories covered with this PROC

SDS_GB 66/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT					
	equipment maintenanc e				
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product, With local exhaust ventilation	0,0137 mg/kg bw/day	0,069	ECETOC TRA worker v3	All relevant Process Categories covered with this PROC
Worker - combined, long-term - systemic			0,072		All relevant Process Categories covered with this PROC

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 6.

1. Enameling and coating of electrical wire

Exposure scenario worker

List of use descriptors Sector(s) of use SU3: Industrial uses: Uses of substances as such or in preparations at industrial sites Product categories [PC]:

Name of contributing environmental scenario and corresponding ERC	Enameling and coating of electrical wire: ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
	ERC5: Industrial use resulting in inclusion into or onto a matrix

SDS_GB 67/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

List of names of contributing worker scenarios and corresponding PROCs

Enameling and coating of electrical wire:

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC5: Mixing or blending in batch processes

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

2.1.Contributing exposure scenario controlling environmental exposure for: Enameling and coating of electrical wire

Product characteristics

Physical state	liquid
----------------	--------

Viscosity:	
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable

Amounts used

Annual amount per site	100 tonnes/year
Fraction of EU tonnage used in	1
region:	

Frequency and duration of use

Batch process:	not relevant
Continuous process:	not relevant

SDS_GB 68/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	not relevant
Local freshwater dilution factor	not relevant
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

type	Emission days Emission factors		Remarks		
type	Emission days	Air	Soil	Water	Kemarks
Continuous release	100	0 %	0 %	-	

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	not relevant		
Soil	not relevant		
Water	Ensure all waste water is collected and treated via a WWTP.		
Sediment:	not relevant		
Remarks:	not relevant		

Organisational measures to prevent/limit release from site:

none

Conditions and measures related to sewage treatment plant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Hazardous waste incineration.		

Conditions and measures related to external recovery of waste

SDS_GB 69/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling worker exposure for: Enameling and coating of electrical wire

Process Categories:	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC5: Mixing or blending in batch processes
	PROC7: Industrial spraying
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC10: Roller application or brushing
	PROC13: Treatment of articles by dipping and pouring

Product characteristics

Concentration of the substance in a mixture:	1 % dermal exposure
	0.1 - 0.5 % inhalation exposure

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	> 100 °C
Remarks	not relevant

Amounts used

SDS_GB 70/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

	Use	Frequency of use:	Remarks
	duration:		
Exposure time	480 min	1 Exposure time per	PROC1, PROC2, PROC3, PROC5,
		day	PROC7, PROC8a, PROC10,
			PROC13

Human factors not influenced by risk management

Exposed skin areas:

Exposed Skill aleas.			
Palm of one hand	240 cm² PROC1 PROC3 PROC13		
Palm of both hands	480 cm² PROC2 PROC5 PROC10		
Both hands	960 cm² PROC8a		
Both hands and main part of the arms	1500 cm² PROC7		

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use	300 m3		10	Industrial spraying, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Roller application or brushing, Treatment of articles by dipping and pouring

Other relevant operational conditions:	Respiration: 30 m³/day
	Body weight:: 70 kg
	Process temperature: 15 - 25 °C . Transfer of substance or
	preparation (charging/discharging) from/to vessels/large
	containers at non-dedicated facilities Roller application or
	brushing Treatment of articles by dipping and pouring

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

SDS_GB 71/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation	Provide adequate ventilation.		All relevant Process Categories
	Inhalation	with local exhaust ventilation	90 %	PROC7, PROC10, PROC13, PROC8a,
Industrial, Manufacturing equipment cleaning:	Inhalation	without local exhaust ventilation		PROC8a

Organisational measures to prevent/limit releases, dispersion and exposure

Application	Route of Exposure	Protective Measures	Remarks
Industrial:	Dermal, Inhalation	Specific workers training in use of personal protective equipment	All relevant Process Categories

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

3. Exposure estimation

Environment:

Enameling and coating of electrical wire:

ERC4, ERC5:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,156 μg/l	0,34	EUSES	
freshwater sediment	0,017 mg/kg wwt	0,34	EUSES	

SDS_GB 72/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT 0,34 0,0156 Saltwater **EUSES** $\mu g/l$ 0,34 Saltwater Sediment 0,17 **EUSES** μg/kg wwt Soil 0,0336 0,83 **EUSES** mg/kg wwt 1,57 **EUSES** Sewage treatment < 0,01 plant μg/l

SDS_GB 73/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Enameling and coating of electrical wire:

PROC7:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, Including modificatio n factor for concentrati on in product	0,9900 μg/m³	0,099	Used ART model., spray application	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product, With local exhaust ventilation	1,070 µg/kg bw/day	0,00535	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,10		none

PROC8a:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, Including modificatio n factor for concentrati on in product	0,29 μg/m³	0,029	Used ART model., Transfer of liquid products - falling liquids	none
Worker - dermal, long-term - systemic	including modificatio n factor for	0,069 µg/kg bw/day	0,00035	ECETOC TRA worker v3	none

SDS_GB 74/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT		
	use of appropriate dermal protection, Including modificatio n factor for concentrati on in product, With local exhaust ventilation				
Worker - combined, long-term - systemic			0,029		none
Worker - inhalative, long-term - systemic	With local exhaust ventilation, Including modificatio n factor for concentrati on in product	0,033 μg/m³	0,0033	Used ART model., Manufacturi ng equipment maintenanc e	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product, With local exhaust ventilation	0,069 μg/kg bw/day	0,00035	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,0036		none

PROC10:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation,	0,3300 µg/m³	0,069	Used ART model., Spread,	none

SDS_GB 75/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT		
	Including modificatio n factor for concentrati on in product			spreading, liquid products	
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product, With local exhaust ventilation	0,6900 mg/kg bw/day	0,0017	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,071		none

PROC13:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	With local exhaust ventilation, Including modificatio n factor for concentrati on in product	0,0033 μg/m³	0,00033	Used ART model., Activities with open liquid surfaces or open reservoirs - activity with undisturbed surfaces (no aerosol formation)	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including	0,34 μg/kg bw/day	0,0017	ECETOC TRA worker v3	none

SDS_GB 76/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV:	560/DBT		
	modificatio n factor for concentrati on in product, With local exhaust ventilation				
Worker - combined, long-term - systemic			0,002	none	

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 7.

Exposure scenario worker

1. Professional use, Process regulators (synthesis regulators) - Catalysts

List of use descriptors			
Sector(s) of use	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)		
	SU19: Building and construction work		
Product categories [PC]:	PC1: Adhesives, sealants		
	PC9a: Coatings and paints, thinners, paint removers		
	PC9b: Fillers, putties, plasters, modelling clay		
	PC0: Other		

Name of contributing environmental	Professional use, Process regulators (synthesis regulators) -
scenario and corresponding ERC	<u>Catalysts:</u>
	ERC8a: Wide dispersive indoor use of processing aids in
	open systems
	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix
	ERC8d: Wide dispersive outdoor use of processing aids in open systems

SDS_GB 77/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT				
	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix			

List of names of contributing worker scenarios and corresponding PROCs

Professional use:

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC10: Roller application or brushing

PROC11: Non industrial spraying

2.1.Contributing exposure scenario controlling environmental exposure for: Professional use, Process regulators (synthesis regulators) - Catalysts

Product characteristics

Physical state	liquid	
Viscosity:		
Kinematic viscosity:	Not applicable	
Dynamic viscosity:	Not applicable	

Amounts used

Annual amount per site	850 tonnes/year Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Annual amount per site	0,365 Widespread use leading to inclusion into/onto article (indoor) Widespread use leading to inclusion into/onto article (outdoor)
Fraction of EU tonnage used in region:	0,1

SDS_GB 78/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

Batch process:	not relevant
Continuous process:	365 Emission days

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	not relevant
Local freshwater dilution factor	not relevant
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

type Emission days	Emiggion days	Emission factors			Remarks
	Air	Soil	Water	Remarks	
Continuous release	365	0 %	0 %	0,2 %	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Continuous release	365	15 %	-	1 %	Widespread use leading to inclusion into/onto article (indoor)
Continuous release	365	15 %	0,5 %	1 %	Widespread use leading to inclusion into/onto article (outdoor)
Continuous release	365	0,05 %	0,16 %	3,2 %	Waste treatment

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 8 of the safety data sheet (Environmental exposure controls).

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Air	not relevant		
Soil	not relevant		
Water	Ensure all waste water is collected and treated via a		

SDS_GB 79/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT		
	WWTP.	
Sediment:	not relevant	
Remarks:	not relevant	

Organisational measures to prevent/limit release from site:

none

Conditions and measures related to sewage treatment plant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Landfill		

Conditions and measures related to external recovery of waste

This information is not available.

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling worker exposure for: Professional use, Process regulators (synthesis regulators) - Catalysts

Process Categories:	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC5: Mixing or blending in batch processes
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
	PROC10: Roller application or brushing
	PROC11: Non industrial spraying

SDS_GB 80/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Product characteristics

Concentration of the substance in a mixture:	1 % dermal exposure
	0.1 - 0.5 % inhalation exposure

Physical form of the product:	liquid
Vapour pressure:	not relevant
Process temperature:	25 °C
Remarks	not relevant

Amounts used

Amounts used	850 tonnes/year
Maximum daily site tonnage	1 kg
(kg/day):	

SDS_GB 81/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Frequency and duration of use

	Use duration:	Frequency of use:	Remarks
Exposure time	240 - 480	1 Exposure time per	All relevant Process Categories
	min	day	

Human factors not influenced by risk management

Exposed skin areas:

Palm of one hand	240 cm² PROC1 PROC3 PROC13
Palm of both hands	480 cm² PROC2 PROC4 PROC5 PROC10 PROC14

Both hands 960 cm² PROC8b PROC9

Other given operational conditions affecting workers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use	300 m3		10	Use in batch and other process (synthesis) where opportunity for exposure arises, Mixing or blending in batch processes, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Roller application or brushing, Non industrial spraying

Other relevant operational conditions:

Respiration: 30 m³/day
Body weight:: 70 kg

Risk management measures (RMM)

Technical conditions and measures at process level (source) to prevent release

See chapter 7 of the safety data sheet

SDS_GB 82/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Technical conditions and measures to control dispersion from source towards the worker

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Professional:	Inhalation	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level., without local exhaust ventilation		All relevant Process Categories

Organisational measures to prevent/limit releases, dispersion and exposure

This information is not available.

Conditions and measures related to personal protection, hygiene and health evaluation

Application	Route of Exposure	Protective Measures	Effecti veness	Remarks
Industrial:	Inhalation, Dermal	See chapter 8 of the safety data sheet (Personal protection equipment)		All relevant Process Categories
Professional:	Dermal	Wear suitable gloves.	90 %	All relevant Process Categories
	Dermal	Wear suitable protective clothing.		All relevant Process Categories

Additional good practice advice beyond the REACH CSA

This information is not available.

SDS_GB 83/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

3. Exposure estimation

Environment:

Professional use, Process regulators (synthesis regulators) - Catalysts:

ERC8c:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,285 ng/L	< 0,01	EUSES	
freshwater sediment	0,031 µg/kg wwt	< 0,01	EUSES	
Saltwater	0,0432 ng/L	< 0,01	EUSES	
Saltwater Sediment	0,0047 µg/kg wwt	< 0,01	EUSES	
Soil	0,075 µg/kg wwt	< 0,01	EUSES	
Sewage treatment plant	2,51 ng/L	< 0,01	EUSES	

ERC8f:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,288 ng/L	< 0,01	EUSES	
freshwater sediment	0,0313 µg/kg wwt	< 0,01	EUSES	
Saltwater	0,0435 ng/L	< 0,01	EUSES	
Saltwater Sediment	0,0047 µg/kg wwt	< 0,01	EUSES	
Soil	0,0752 µg/kg wwt	< 0,01	EUSES	
Sewage treatment plant	2,51 ng/L	< 0,01	EUSES	

ERC8a, ERC8d:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,12 μg/l	0,26	EUSES	

SDS_GB 84/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		R	RTV560/DBT						
freshwater sediment	0,0131 mg/kg wwt	0,26	EUSES						
Saltwater	0,012 µg/l	0,26	EUSES						
Saltwater Sediment	1,31 µg/kg wwt	0,26	EUSES						
Soil	0,0248 mg/kg wwt	0,61	EUSES						
Sewage treatment plant	1,16 µg/l	< 0,01	EUSES						

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,041 µg/l	0,09	EUSES	
freshwater sediment	4,46 µg/kg wwt	0,09	EUSES	
Saltwater	4,09 ng/L	0,09	EUSES	
Saltwater Sediment	0,445 µg/kg wwt	0,09	EUSES	
Soil	0,0092 µg/kg wwt	< 0,01	EUSES	
Sewage treatment plant	0,375 μg/l	< 0,01	EUSES	

SDS_GB 85/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Health:

Professional use, Process regulators (synthesis regulators) - Catalysts:

PROC4:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product	0,032 μg/m³	0,0032	Used ART model., Activities with open liquid surfaces or open reservoirs - activity with undisturbed surfaces (no aerosol formation)	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	3,450 µg/kg bw/day	0,017	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,2		none

PROC5:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product	0,032 μg/m³	0,0032	Used ART model., Activities with open liquid surfaces or open reservoirs - activity with undisturbed surfaces (no	none

SDS_GB 86/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT					
				aerosol formation)	
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	6,88 µg/kg bw/day	0,0344	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,038		none

PROC8a:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product	0,3200 μg/m³	0,03	Used ART model., Transfer of liquid products - falling liquids	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	6,880 µg/kg bw/day	0,0344	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,064		none

PROC10:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative,	Including	0,0033	0,33	Used ART	none

SDS_GB 87/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

		RTV	560/DBT		
long-term - systemic	modificatio n factor for concentrati on in product	μg/m³		model., Spread, spreading, liquid products	
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,0137 mg/kg bw/day	0,0685	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,4		none

PROC11:

	Specific condition	Exposur e level	RCR	Method	Remarks
Worker - inhalative, long-term - systemic	Including modificatio n factor for concentrati on in product	0,0033 mg/m³	0,33	Used ART model., spray application	none
Worker - dermal, long-term - systemic	including modificatio n factor for use of appropriate dermal protection, Including modificatio n factor for concentrati on in product	0,0536 mg/kg bw/day	0,268	ECETOC TRA worker v3	none
Worker - combined, long-term - systemic			0,6		none

SDS_GB 88/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Exposure Scenario 8.

Exposure scenario consumer

1. Consumer use, Process regulators (synthesis regulators) - Catalysts:

List of use descriptors	
Sector(s) of use	SU21: Consumer uses: Private households (= general public = consumers)
Product categories [PC]:	PC1: Adhesives, sealants

Name of contributing environmental	Consumer use, Process regulators (synthesis regulators) -
scenario and corresponding ERC	<u>Catalysts:</u>
	ERC8a: Wide dispersive indoor use of processing aids in open systems
	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix
	ERC8d: Wide dispersive outdoor use of processing aids in open systems
	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release
	ERC11a: Widespread use of articles with low release (indoor)

List of names of contributing worker	Consumer use:
scenarios and corresponding PROCs	:

SDS_GB 89/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

2.1.Contributing exposure scenario controlling environmental exposure for: Consumer use, Process regulators (synthesis regulators) - Catalysts

Product characteristics

Viscosity	
Kinematic viscosity	This information is not available.
Dynamic viscosity	This information is not available.

Amounts used

Annual amount per site	850 tonnes/year
Fraction of EU tonnage used in	0,1
region:	

Frequency and duration of use

Batch process	not relevant
Continuous process	365 Emission days

Environment factors not influenced by risk management

Flow rate of receiving surface water (m³/d):	not relevant
Local freshwater dilution factor	not relevant
Local marine water dilution factor	not relevant

Other given operational conditions affecting environmental exposure

tyma	Emission days	Emission factors			Remarks	
type	Emission days	Air	Soil	Water	Kemarks	
Continuous release	365	0,05 %	-	0,05 %	Widespread use of articles with low release (indoor)	

SDS_GB 90/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

	RTV560	/DBT			
Continuous release	365	0 %	0 %	0,2 %	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) Widespread use leading to inclusion into/onto article (indoor) Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) Widespread use leading to inclusion into/onto article (outdoor) Widespread use leading to inclusion into/onto article (outdoor) Widespread use of articles with low release (outdoor)

Other relevant operational conditions	not relevant
---------------------------------------	--------------

Risk management measures (RMM)

Conditions and measures related to municipal sewage treatment plant

Conditions and measures related to external treatment of waste for disposal

Fraction of used amount transferred to external waste treatment:

Suitable waste treatment	Treatment effectiveness	Remarks
Landfill		

Conditions and measures related to external recovery of waste

none

Additional good practice advice beyond the REACH CSA

This information is not available.

2.2. Contributing exposure scenario controlling consumer exposure for: Consumer use, Process regulators (synthesis regulators) - Catalysts

|--|

SDS_GB 91/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

Supersedes Date: 06.10.2022 RTV560/DBT **Product characteristics** Concentration of the substance in a 0.1 % mixture: Physical form of the product: liquid Vapour pressure: not relevant 25 °C **Process temperature:** Remarks not relevant **Application:** not relevant **Amounts** used 0,075 kg per task: Frequency and duration of use Use Frequency of use: Remarks duration (h/d): Exposure time 45 min 3Exposure time per year Human factors not influenced by risk management Exposed skin areas: 2 cm^2 ConsExpo default

Other given operational conditions affecting consumers exposure

Area of use	Room size:	Temperatur e:	Ventilation rate	Remarks
Indoor use	10 m3		2	Covers use at ambient temperatures.

Other relevant operational conditions	Release area: 250 cm ²
	Release duration: 1800 seconds
	Body weight:: 60 kg
	Application duration: 30 min

SDS_GB 92/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

Risk management measures (RMM)

Conditions and measures related to information and behavioural advice to consumers

Consumer without local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

See chapter 8 of the safety data sheet (Personal protection equipment)

Additional good practice advice beyond the REACH CSA

not relevant

SDS_GB 93/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

RTV560/DBT

3. Exposure estimation and reference to its source

Environment:

Consumer use, Process regulators (synthesis regulators) - Catalysts:

ERC8a, ERC8c, ERC8d, ERC8f, ERC10a:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,12 μg/l	0,26	EUSES	none
freshwater sediment	0,0131 mg/kg wwt	0,26	EUSES	none
Saltwater	0,012 μg/l	0,26	EUSES	none
Saltwater Sediment	1,31 µg/kg wwt	0,26	EUSES	none
Soil	0,0248 mg/kg wwt	0,61	EUSES	none
Sewage treatment plant	1,16 μg/l	< 0,01	EUSES	none

ERC11a:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,0294 μg/l	0,06	EUSES	none
freshwater sediment	3,2 µg/kg wwt	0,06	EUSES	none
Saltwater	4,6 ng/L	0,10	EUSES	none
Saltwater Sediment	0,501 µg/kg wwt	0,10	EUSES	none
Soil	6,21 µg/kg wwt	0,15	EUSES	none
Sewage treatment plant	0,283 μg/l	< 0,01	EUSES	none

Waste:

Compartment	PEC	RCR	Method	Remarks
Fresh water	0,041	0,09	EUSES	none
	μg/l			

SDS_GB 94/95



Last revised date: 27.10.2022 Supersedes Date: 06.10.2022

	RTV560/DBT						
freshwater sediment	4,46 µg/kg wwt	0,09	EUSES	none			
Saltwater	4,09 ng/L	0,09	EUSES	none			
Saltwater Sediment	0,445 µg/kg wwt	0,09	EUSES	none			
Soil	0,0093 µg/kg wwt	< 0,01	EUSES	none			
Sewage treatment plant	0,375 μg/l	< 0,01	EUSES	none			

Health:

Consumer use, Process regulators (synthesis regulators) - Catalysts:

PC1:

	Specific condition	Exposur e level	RCR	Method	Remarks
Consumer - dermal, short-term - local and systemic	Joint sealants	0,025 mg/kg bw/day	0,05	ConsExpo v4.1	none
Consumer - inhalative, short-term - systemic	Joint sealants	< 0,0003 μg/m³	< 0,000014	ConsExpo 4.1 (Consumer inhalation exposure)	none
Consumer - combined, short- term - systemic			0,05	ConsExpo v4.1	none

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

SDS_GB 95/95