

SS4120



Signal Words: Danger

Hazard Statement(s): H225: Highly flammable liquid and vapor.
H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled.
H319: Causes serious eye irritation.
H370: Causes damage to organs.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Additional Information: No data available.

2.3 Other hazards

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

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3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Ethanol	50 - <100%	64-17-5	200-578-6	01-2119457610-43-XXXX	Not applicable	#
Methanol	25 - <50%	67-56-1	200-659-6	01-2119433307-44-XXXX	Not applicable	#
Silicic acid, ethyl ester	5 - <10%	11099-06-2	234-324-0	No data available.	Not applicable	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Ethanol	Flam. Liq.: 2: H225; Eye Dam.: 2: H319;	No data available.
Methanol	Flam. Liq.: 2: H225; Acute Tox.: 3: H331; Acute Tox.: 3: H311; Acute Tox.: 3: H301; STOT SE: 1: H370; No data available.	No data available.
Silicic acid, ethyl ester	Flam. Liq.: 3: H226; STOT SE: 3: H335; Eye Dam.: 2: H319; Acute Tox.: 4: H302;	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention. Wash contaminated clothing before reuse.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed: Itching Redness

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4.3 Indication of any immediate medical attention and special treatment needed

Hazards: This product is not expected to produce adverse effects under normal conditions of use and appropriate personal hygiene.

Treatment: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If swallowed, do NOT induce vomiting. Give a glass of 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:**

water jet

**5.2 Special hazards arising
from the substance or
mixture:**

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Ground container and transfer equipment to eliminate static electric sparks.

**5.3 Advice for firefighters
Special fire-fighting
procedures:**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Product may charge electrostatically during pouring or filling. All equipment used when handling the product must be grounded.

**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:**

Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazards. Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment.

6.2 Environmental Precautions:

Avoid discharge into drains, water courses or onto the 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:**

Prevent entry into waterways, sewer, basements or confined areas.

SECTION 7: Handling and storage:

**7.1 Precautions for safe
handling:**

Do not breathe vapor/spray. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

Storage conditions:

Keep away from heat, sparks and open flame. Keep container closed. Store in original container.

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7.2 Conditions for safe storage, including any incompatibilities: Store in tightly closed original container in a dry and cool place.

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	Type	Exposure Limit Values	Source
Ethanol	TWA	1.000 ppm 1.920 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Methanol	TWA	200 ppm 266 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL	250 ppm 333 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	TWA	200 ppm 260 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Provide eyewash station and safety shower.

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: Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: Nitrile rubber.

Other: Wear suitable protective clothing and eye/face protection.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Combination filtering device (EN 14387) Respiratory protection mask with Filtrertype ABEK

Hygiene measures: Avoid contact with eyes. When using do not smoke. Wash thoroughly after handling.

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: Colorless

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Odor:	No data available.
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	ca. -81 °C
Boiling Point:	estimated 65 °C
Flash Point:	11 °C (calculated)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	ca. 19 %(V) (No data available.)
Flammability Limit - Lower (%):	ca. 3,3 %(V) (No data available.)
Vapor pressure:	No data available.
Relative vapor density:	No data available.
Density:	ca. 0,82 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	ca. 185 °C
Decomposition Temperature:	No decomposition if stored and applied as directed.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
Explosive properties:	No data available.
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:	Keep away from heat, sparks and open flame.
10.5 Incompatible Materials:	Oxidizing agents.
10.6 Hazardous Decomposition Products:	Carbon dioxide

SECTION 11: Toxicological information

General information:	Toxicological information on this product is not available.
Information on likely routes of exposure	
Inhalation:	No data available.

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Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 221,24 mg/kg

Specified substance(s)

Ethanol No data available.

Methanol No data available.

Silicic acid, ethyl ester No data available.

Dermal

Product: ATEmix: 681,82 mg/kg

Specified substance(s)

Ethanol No data available.

Methanol No data available.

Silicic acid, ethyl ester No data available.

Inhalation

Product: Vapour: ATEmix6,82 mg/l

Specified substance(s)

Ethanol LC50 (Mouse, 4,00 h): 39 mg/l

LC50 (Rat, 0,17 h): 38,3 mg/l

Methanol No data available.

Silicic acid, ethyl ester No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Ethanol No data available.

Methanol No data available.

Silicic acid, ethyl ester No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Ethanol No data available.

Methanol No data available.

Silicic acid, ethyl ester No data available.

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

Ethanol OECD Test Guideline 405 (Rabbit): Slightly irritating.

Methanol No data available.

Silicic acid, ethyl ester No data available.

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

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Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

In vivo

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Target Organs:

Methanol	Central nervous system. optic nerve
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Aspiration Hazard

Product: No data available.

Specified substance(s)

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Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	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:

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Ethanol	LC50 (No data available., 96 h): 15.400 mg/l (No data available.) LC50 (Pimephales promelas, 96 h): 14.200 mg/l
Methanol	LC50 (Pimephales promelas, 96 h): 28.100 mg/l
Silicic acid, ethyl ester	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Ethanol	No data available.
Methanol	No data available.
Silicic acid, ethyl ester	No data available.

Toxicity to Aquatic Plants

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Product: No data available.

Specified substance(s)

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester No data available.

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester 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:

Ethanol No data available.
 Methanol No data available.
 Silicic acid, ethyl ester No data available.

12.7 Other adverse effects:

Other hazards

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Product: No data available.

Additional Information: Ecotoxicological data for this product is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

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

SECTION 14: Transport information

ADR

14.1 UN number or ID number: UN 1992
14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, Ethanol)
14.3 Transport Hazard Class(es)
Class: 3 (6.1)
Label(s): 3, 6.1
Hazard No. (ADR): 336
Tunnel restriction code: (D/E)
14.4 Packing Group: II
14.5 Environmental Hazards: No
Marine Pollutant No

ADN

14.1 UN number or ID number: UN 1992
14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, Ethanol)
14.3 Transport Hazard Class(es)
Class: 3 (6.1)
Label(s): 3, 6.1
14.4 Packing Group: II
14.5 Environmental Hazards: No
Marine Pollutant No

RID

14.1 UN number or ID number: UN 1992
14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, Ethanol)
14.3 Transport Hazard Class(es)
Class: 3 (6.1)
Label(s): 3, 6.1
14.4 Packing Group: II
14.5 Environmental Hazards: No
Marine Pollutant No

IMDG

14.1 UN number or ID number: UN 1992
14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S.(METHANOL, Ethanol)
14.3 Transport Hazard Class(es)
Class: 3 (6.1)
Label(s): 3, 6.1
EmS No.: F-E, S-D
14.4 Packing Group: II
14.5 Environmental Hazards: No
Marine Pollutant: No

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IATA

14.1 UN number or ID number: UN 1992
 14.2 Proper Shipping Name: Flammable liquid, toxic, n.o.s.(METHANOL, Ethanol)
 14.3 Transport Hazard Class(es):
 Class: 3 (6.1)
 Label(s): 3, 6.1
 14.4 Packing Group: II
 14.5 Environmental Hazards: No
 Marine Pollutant: No

14.6 Special precautions for user: 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: none

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:

Chemical name	CAS-No.	Concentration
Ethanol	64-17-5	50 - 60%
Methanol	67-56-1	40 - 50%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

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
Methanol	67-56-1	40 - 50%

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

Classification	Lower-tier Requirements	Upper-tier Requirements
P5a. Flammable liquids	500 t	5.000 t

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P5b. Flammable liquids	500 t	5.000 t
P5c. Flammable liquids	500 t	5.000 t
H2. Acute toxic	500 t	5.000 t
H3. STOT SE	500 t	5.000 t

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
 none

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

Chemical name	CAS-No.	Concentration
Ethanol	64-17-5	50 - 60%
Methanol	67-56-1	40 - 50%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia Industrial Chem. Act (AIC):	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	Please contact your supplier for further information on the inventory status of this material.	Remarks: Toxic substance
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	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

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.

Training information: No data available.

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

Flam. Liq. 2, H225
Acute Tox. 3, H301
Acute Tox. 3, H311
Acute Tox. 3, H331
STOT SE 1, H370

Issue Date: 17.11.2022

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 warranty or 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.

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