SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Novodur® ABS Granulat

Material number ABS005

Revision date:15/3/2023Version:29.1Replaces version:29.0Language:en-EUDate of print:23/3/2023

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

1.1 Product identifier

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Trade name: Novodur® ABS Granulat

This safety data sheet pertains to the following products: Novodur® C112 Novodur® E309 Novodur® E401 Novodur® GP-22 Q459 Novodur® H604 Novodur® H605 Novodur® H606LS Novodur® HD 877M Novodur® HD M203FC Novodur® HD M205FC Novodur® HD-15 Novodur® HG-36 Novodur® M201AS Novodur® M203 Novodur® M204PG Novodur® M210TF Novodur® M307 Novodur® P2H-AT Novodur® P2HE NR Novodur® P2L-AT Novodur® P2M-AT Novodur® P2MC Novodur® P2M-V Novodur® P3H-AT Novodur® P4LG Novodur® PRECO BMGVP41 Novodur® PRECO BMGVP55

Novodur® PRECO EXP Novodur® PRECO P60P50 CAS-Number: 9003_4

9003-56-9

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

General use:

EC-number

For the production of moulded plastic articles or as intermediate for the production of plastic Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company name:	INEOS Styrolution Group GmbH
Street/POB-No.:	Mainzer Landstraße 50
Postal Code, city:	DE-60325 Frankfurt
WWW:	www.styrolution.com
E-mail:	INSTY.emea@ineos.com
Department responsible for information:	
	Infopoint
	E-mail: INSTY.emea@ineos.com

1.4 Emergency telephone number

Telephone: +44 (0) 1235 239 670

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

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Hazard statements:	not applicable
Precautionary statements:	not applicable

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2.3 Other hazards

	Dust: Can cause skin, eye and respiratory tract irritation. In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed. The melted product can cause severe burns. Swallowing may cause gastrointestinal irritation and pain of guts.
rtiae	Results of PRT and vPvR assessment

Endocrine disrupting propertie

The product does not contain any as PBT or vPvB classified substances.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation:	(C8H8*C4H6*(C3H3)n)m Acrylonitrile-butadiene-styrene copolymer 2-Propenenitrile, polymer with 1,3-Butadiene and Ethylbenzene
CAS-Number:	9003-56-9
EC-number:	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Immediately remove any contaminated clothing, shoes or stockings.
In case of inhalation:	In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. If breathing has stopped, give artificial respiration immediately. Seek medical attention
Following skin contact:	The melted product can cause severe burns. Do not remove the product from the skin without medical assistance. After contact with molten product, cool skin area rapidly with cold water. Cover with sterile dressing material to protect against infection. Consult physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an opthalmologist.
After swallowing:	Rinse mouth with water. Drink one or two glasses of water. Never give an unconscious person anything through the mouth. Seek medical attention.
4.2 Most important symptoms and effects, both acute and delayed	

Dust: Skin irritation, eye irritations and redness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Decontamination, vital functions

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SECTION 5: Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media:

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Water spray jet, foam, extinguishing powder, carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Smoke, carbon monoxide and carbon dioxide (CO2). Possible in traces: Acrylonitrile, butadiene, styrene, hydrocarbons, aldehydes, acids. In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Additional information:

Seal off endangered area. Remove persons to safety. Do not allow fire water to penetrate into

surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep the molten mass away from the eyes and the skin. Where there is a risk of exothermal decomposition as a result of overheating (rise in temperature, formation of fumes or smoke) cool the melt in a water bath. Provide adequate ventilation. Wear personal protection equipment. Do not breathe dust.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Collect in closed containers for disposal.

Avoid generation of dust. Remove all sources of ignition. Provide adequate ventilation.

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For mechanical processing: Provide adequate ventilation, and local exhaust as needed. Do not Advices on safe handling: breathe dust. In the case of the formation of dust: Withdraw by suction. In case of melting: To avoid thermal decomposition, do not overheat. Make sure there is sufficient air exchange and / or that working rooms are air suctioned. Avoid exceeding WEL threshold levels. Do not breathe vapours. Molten material: Avoid contact with the substance. After work, wash hands and face. Precautions against fire and explosion Take precautionary measures against static discharges. Keep away from sources of ignition. Use grounding equipment. Use explosion-proof equipment and non-sparking tools/utensils. Avoid open flames.

In case of dust formation (fine dust): May form explosible dust-air mixture if dispersed.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

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Store in a well-ventilated place. Keep container tightly closed. Store only in original container. Protect against heat /sun rays. Protect from moisture contamination.

Protect from moisture contamination

Special danger of slipping by leaking/spilling product.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information:

Further details:

The product contains very low levels of residual monomers and process chemicals (mainly styrene, ethylbenzene and very low levels of acrylonitrile, vinylcyclohexene, butadiene) that may be evolved during thermal processing, along with possible decomposition products. As the identity and levels of these impurities evolved will depend upon the processing conditions (temperature etc.) it is the responsibility of the user to determine the adequacy of any protection or safety measures.

8.2 Exposure controls

Provide good ventilation in the work area. Additional controls are not normally necessary when handling the polymer.

Thermal extrusion: Provide local exhaust ventilation to ensure that the workplace exposure limit is not exceeded.

Use of respiratory protection may be necessary during maintenance activities.

Personal protection equipment

Occupational exposure controls

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A-P2 according to EN 14387.
Hand protection:	Protective gloves according to EN 374. Protective gloves made of fabric or leather. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
	In case of melting: Impervious heat protective gloves according to EN 407. Glove material: Leather Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Wear suitable protective clothing. Boots or safety shoes. In case of dust formation: Overall
General protection and hygien	e measures:
	Molten material: Avoid contact with skin. Avoid breathing dust and vapours. Keep away from sources of ignition. Wash hands before breaks and after work.
	In case of dust formation: Particular danger of slipping on spilled product on the ground

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
	Form: granulate
Colour:	varying, depends on colouring

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Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	(Softening temperature): 95 - 105 °C
Initial boiling point and boiling range:	No data available
Flammability:	Not highly flammable.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	Not applicable
Decomposition temperature:	approx. > 300 °C
pH:	Not applicable
Viscosity, kinematic:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 20 °C: 1 - 1.1 g/cm³
Vapour density:	No data available
Particle characteristics:	No data available
9.2 Other information	
Explosive properties:	In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed
Oxidizing characteristics:	No data available
Auto-ignition temperature:	not self-igniting
Bulk density:	500 - 700 kg/m³
Evaporation rate:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

exothermic reactions

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

10.4 Conditions to avoid

Keep away from sources of ignition and heat. Keep away from open flames, hot surfaces and sources of ignition. Avoid dust formation. Protect from moisture contamination.

10.5 Incompatible materials

Strong oxidizing agents, strong acids

10.6 Hazardous decomposition products

When greatly overheated, material may release hazardous decomposition products: monomers, hydrocarbons, gases/vapours, cyclic low molecular weight oligomers, carbon monoxide and carbon dioxide.

Thermal decomposition: approx. > 300 °C

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects:

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The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data. No evidence of acute toxicity.

Acute toxicity (dermal): Lack of data. No evidence of acute toxicity.

Acute toxicity (inhalative): Lack of data. No evidence of acute toxicity.

Skin corrosion/irritation: Lack of data.

Dust: Can cause skin, eye and respiratory tract irritation.

Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.

Serious eye damage/irritation: Lack of data.

Dust: Can cause skin, eye and respiratory tract irritation.

Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.

Skin sensitisation: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.

Carcinogenicity: Based on available data, the classification criteria are not met. No indications of human carcinogenicity exist.

Reproductive toxicity: Based on available data, the classification criteria are not met. The chemical structure of the polymer does not suggest a specific alert for such an effect.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Dust: Can cause skin, eye and respiratory tract irritation.

Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.

Specific target organ toxicity (repeated exposure): Lack of data. Chronic toxic effects are not expected. The product has not been tested. The statement is derived from products of similar structure or composition.

Aspiration hazard: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information: When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

Symptoms

Dust: Can cause skin, eye and respiratory tract irritation. The melted product can cause severe burns. Thermal treatment, Processing: Irritating to eyes, respiratory system and skin. In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: no evidence of aquatic toxicity

12.2 Persistence and degradability

Further details:	Biodegradation: Product is not readily biodegradable
	The product is likely to persist in the environment.

Effects in sewage plants: In sewage treatment plants it may be separated mechanically.

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12.3 Bioaccumulative potential

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To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

No data available

12.4 Mobility in soil

Partition coefficient: n-octanol/water

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No data available

12.5 Results of PBT and vPvB assessment

The product does not contain any as PBT or vPvB classified substances.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

 Waste key number:
 07 02 13 =
 Waste plastic

 Recommendation:
 Recycling or special waste incineration.

 After appropriate treatment the product can be remelted and reprocessed into new moulded articles.

 Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR

not applicable

14.5 Environmental hazards

Dangerous for the environment:

Marine pollutant - IMDG:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations. no

Dispose of waste accord

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14.6 Special precautions for user

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No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - EC member states

Further regulations, limitations and legal requirements:

No data available

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information		
Reason of change: Date of first version:	General revision 4/9/2012	
Department issuing data shee	t	
	see section 1: Department responsible for information	
Abbreviations and acronyms:	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ASINZS: Australian Standards/New Zealand Standards CAS: Chemical Abstracts Service CFR: Code of Federal Regulations CLP: Classification, Labelling and Packaging DMEL: Derived no-effect level EC: European Community EN: European Community EN: European Standard EQ: Excepted quantities EU: European Union IATA: International Air Transport Association IATA-DGR: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Maritime Dangerous Goods Code MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships OEL: Occupational Safety and Health Administration PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail TLV: Threshold Limit Value TRGS: Technical Rules for Hazardous Substances VPVB: Very persistent and very bioaccumulative WEL: Workplace Exposure Limit	
of the product described in ter	teer has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties ms of the legal warranty regulations.	