SAFETY DATA SHEET



Novamid® AM1030 FR Naturel

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

1.1 Product identifier

Product name : Novamid® AM1030 FR Naturel

Internal code : 016165WW73152

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

Not applicable.

Recommended use : plastic products.

1.3 Details of the supplier of the safety data sheet

Supplier : Covestro Desotech B.V

Slachthuisweg 30

3151 XN Hoek van Holland

Netherlands

Tel: +31 174 315544

e-mail address of person responsible for this SDS

: resins.SDS@covestro.com

1.4 Emergency telephone number

Emergency telephone

number

: +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Remarks : Hazard of slipping on spilt product. Heated material can cause thermal burns. Electrostatic

charging can occur during unloading or processing of this material. If necessary take precautionary measures against static discharges. The likelihood of adverse health effects arising from normal use of the product is considered very low. Appropriate precautions should be taken if the product is subjected to secondary processing. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Dust may cause mechanical

irritation.

2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Supplemental label

elements

: Safety data sheet available on request.

Precautionary statements

General: Not applicable.Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

Hazardous ingredients :

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

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Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.1 Substances / 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	<u>Classification</u>
			Regulation (EC) No. 1272/2008 [CLP]
Boron zinc hydroxide oxide	REACH #: 01-2119691658-19 EC: 235-804-2 CAS: 138265-88-0	<2.5	Eye Irrit. 2, H319 Repr. 2, H361d (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411
			See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Remarks

: The components of this product are embedded in an impervious polymer matrix and are therefore not biologically available. Any hazardous constituents are fixed in the polymer matrix and therefore present a negligible exposure risk under normal conditions of processing and handling. Additives contained in this product do not pose a risk to health unless they are liberated during processing (fumes from melting, dusts). Suitable Industrial Hygiene precautions should be implemented to prevent (respirable) dust and fume exposures. Exposure to (melting) fumes should be kept as low as possible, using suitable ventilation equipment. Dusts and fumes created from secondary processing may be irritating to respiratory tract and skin and should be considered as potentially hazardous. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: No specific fire or explosion hazard.

Hazardous combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

 $: \ \ \text{Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a}\\$

fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN

469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or

walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section

8 on suitable and unsuitable materials. See also the information in "For non-emergency

personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated,

labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste

container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other

: See Section 1 for emergency contact information.

sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

· Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions Remarks

: Never stack pallets more than two high to prevent the risk of them falling over. Big Bags may not be stacked. Pallets should not be stacked along the aisles. In case the material is delivered in bulk silo, the silo can contain 0.5 bar dry air at maximum. Relief pressure via vent line. Never use the manlid

for pressure relief.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
No exposure limit value known.	

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Boron zinc hydroxide oxide	DNEL DNEL	Long term Inhalation Long term Dermal	22.4 mg/m³ 1585 mg/kg bw/day	Workers Workers	Systemic Systemic
	DNEL	Long term Inhalation	8.3 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	1205 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	2.4 mg/kg bw/day	General population [Consumers]	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Boron zinc hydroxide oxide	Fresh water Marine water Sewage Treatment Plant Fresh water sediment	0.0206 mg/l 0.0061 mg/l 0.1 mg/l 117.8 mg/kg dwt	-
	Marine water sediment	56.6 mg/kg dwt	-
	Marine water sediment	35.6 mg/kg dwt	-

8.2 Exposure controls

Appropriate engineering

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

controls

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety glasses with side shields.

Use eye protection according to EN 166.

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Chemical-resistant, impervious gloves complying with an approved standard should be worn at all Hand protection

times when handling chemical products if a risk assessment indicates this is necessary.

Skin and body : Working clothes.

: No special protection is required. In case of insufficient ventilation, wear suitable respiratory Respiratory protection

equipment.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers,

filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Solid.

Colour : naturally opaque, dependent on the added pigment

Odour : Not available. рН : Not available. : 185 to 215 °C Melting point/freezing point Initial boiling point and : Not available.

boiling range

: >400 °C Flash point Flammability (solid, gas) : Not available. **Evaporation rate** : Not available. Upper/lower flammability or : Not available.

explosive limits

· Not available

Vapour pressure : Not available. Vapour density

Relative density : 1.1 to 1.3 (Water = 1) : 1.1 to 1.3 g/cm³ Density (g/cm³)

Solubility : Insoluble in the following materials: cold water.

Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

: > 420 °C **Auto-ignition temperature** : >350°C **Decomposition temperature** Viscosity : Not available. : Not available. **Explosive properties Oxidising properties** Not available.

9.2 Other information

Minimum ignition

temperature

: 450 °C

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous

decomposition products

: No specific data.

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Remarks : At processing temperatures some degree of thermal degradation may occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Boron zinc hydroxide oxide	LC0 Inhalation Dusts and mists	Rat - Male, Female	4.95 mg/l	4 hours
	LC50 Inhalation Dusts and mists	Rat - Male, Female	>4.95 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg (LD0 = 5000 mg/kg)	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg (LD0 = 5000 mg/kg)	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Boron zinc hydroxide oxide	Skin - Primary dermal irritation index (PDII)	Rabbit	0.2	4 hours 0.5 g	-
	Skin - Non-irritating	Rabbit	0.2	4 hours 0.5 g	-
	Eyes - Cornea opacity	Rabbit	2	-	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0.67	-	24 to 72 hours
	Eyes - Redness of the conjunctivae	Rabbit	2.11	-	24 to 72 hours
	Eyes - Oedema of the conjunctivae	Rabbit	1.22	-	24 to 72 hours

Conclusion/Summary

Eyes: Not available.Skin: Not available.Respiratory: Not available.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Boron zinc hydroxide oxide	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin: Not available.Respiratory: Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Boron zinc hydroxide oxide	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: Without & with metabolic activation	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian- Animal Cell: Somatic Metabolic activation: Without & with metabolic activation	Negative

Conclusion/Summary

Carcinogenicity

: Not available.

Conclusion/Summary
Reproductive toxicity

: Not available.

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Product/ingredient name	Maternal	Fertility	Developmental	Species	Dose	Exposure
Boron zinc hydroxide oxide	-	-	Positive	Rat - Female	Oral: ≥100 mg/kg / day (LOAEL)	-

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Boron zinc hydroxide oxide	Chronic NOAEL Oral	Rat - Male	100 mg/kg /day	-
	Chronic NOAEL Oral	Rat - Female	375 mg/kg /day	-
	Sub-chronic NOEL Inhalation Dusts and mists	Rat - Male, Female	0.003 mg/l	13 weeks; 6 hours per day /5 days per week
	Sub-chronic LOEL Inhalation Dusts and mists	Rat - Male, Female	0.005 mg/l	13 weeks; 6 hours per day /5 days per week

Conclusion/Summary : Not available.

 General
 : No known significant effects or critical hazards.

 Carcinogenicity
 : No known significant effects or critical hazards.

 Mutagenicity
 : No known significant effects or critical hazards.

 Reproductive toxicity
 : No known significant effects or critical hazards.

Remarks : The components of this product are embedded in an impervious polymer matrix and are therefore not biologically available. This product contains additives that may cause - or are suspected of causing - cancer, genetic defects or damage the fertility or the unborn child. The likelihood of

adverse health effects arising from normal use of the product are considered very low.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Effects
Boron zinc hydroxide oxide	Acute EC50 0.1 to 1 mg/l Fresh water	Algae	72 hours	Mobility
	Acute EC50 0.1 to 1 mg/l Fresh water	Daphnia	48 hours	Mobility
	Acute LC50 0.1 to 1 mg/l Fresh water	Fish	96 hours	Mortality
	Chronic NOEC 0.01 to 0.1 mg/ I Fresh water	Daphnia	21 days	-
1	Chronic NOEC 0.01 to 0.1 mg/	Fish	30 days	-

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I Fresh water

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Boron zinc hydroxide oxide	-	-	Readily

12.3 Bioaccumulative potential

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

: No known significant effects or critical hazards.

Remarks

Mobility

: The components of this product are embedded in an impervious polymer matrix and are therefore not biologically available. This product is not biodegradable and not toxic to aquatic organisms.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. Reference number: 2008/98/EC.

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not

feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	9005	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O.S., MOLTEN	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-

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covestro	

14.5	No.	Yes.	No.	No.
Environmental				
hazards				

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for

user

Remarks

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or

spillage.

14.7 Transport in bulk according to IMO instruments

: Not applicable.

: In case the material is delivered in bulk silo, the silo can contain 0.5 bar dry air at maximum. Relief

pressure via vent line. Never use the manlid for pressure relief.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Not applicable.

Other EU regulations

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Boron zinc hydroxide oxide	-	-	1	-

Ozone depleting substances (1005/2009/EU)

Not listed.

articles

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

Montreal Protocol

Ingredient name	Status
Not listed.	

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status	ì
Not listed.			ı

Rotterdam Convention on Prior Informed Consent (PIC)

Ingredient name	List name	Status
Not listed.		

UNECE Aarhus Protocol on POPs and Heavy Metals

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Ingredient name	List name	Status
Not listed.		

Remarks

Listings of substances in this section are based on the presence of these substances above the applicable concentration limit. Relevant declarations related to this product are available on request.

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

	Causes serious eye irritation. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2

Alterations compared to the

previous version

: Alterations compared to the previous version are marked with a little (blue) triangle.

Abbreviations and acronyms :

: ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Sources of key data : Literature data and/or investigation reports are available through the manufacturer.

Internal code : 016165WW73152

Training advice : Handling of this substance or preparation is restricted to skilled personnel only.

Notice to reader

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.

History

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