

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**BOSTIK STIX P966 TURF - HARDENER** 

**Supercedes Date:** 13-May-2020

Revision date 23-Jan-2023

Revision Number 2

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

#### 1.1. Product identifier

Product Name BOSTIK STIX P966 TURF - HARDENER

Pure substance/mixture Substance

**CAS No** 9016-87-9

REACH Registration Number exempt

Chemical name P-MDI

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

Recommended use Hardener Industrial use

Uses advised against None known

#### 1.3. Details of the supplier of the safety data sheet

#### **Company Name**

Bostik Limited Common Rd ST16 3EH Stafford UK

Tel: +44 (1785) 27 26 25 Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

## 1.4. Emergency telephone number

**United Kingdom** Bostik: +44 (1785) 272650

NHS: 111

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)

### 2.2. Label elements

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Contains Diphenylmethane-diisocyanate, isomers and homologues



## Signal word

Danger

#### **Hazard statements**

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P260 - Do not breathe vapour

P280 - Wear protective gloves and eye/face protection

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P501 - Dispose of contents/ container to an approved waste disposal plant

### Special provisions concerning the labelling of certain mixtures

As from 24 August 2023 adequate training is required before industrial or professional use. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

#### Additional information

This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	EC No (EU Index No)	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Diphenylmethane-diisoc	618-498-9	9016-87-9	80 - 100	STOT SE 3	STOT SE 3 :: C>=5%	[7]

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yanate, isomers and	(H335)	Skin Irrit. 2 :: C>=5%	
homologues	STOT RE 2	Eye Irrit. 2 :: C>=5%	
	(H373)	Resp. Sens. 1 ::	
	Skin Irrit. 2	C>=0.1%	
	(H315)		
	Eye Irrit. 2		
	(H319)		
	Resp. Sens. 1		
	(H334)		
	Skin Sens. 1		
	(H317)		
	Carc. 2 (H351)		
	Acute Tox. 4		
	(H332)		

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**Inhalation** May cause allergic respiratory reaction. If breathing has stopped, give artificial

respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical

attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see

a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give

anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

Avoid breathing vapours or mists.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/

or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Burning sensation. Difficulty in breathing.

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4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitiser. May cause sensitisation by inhalation and skin

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contact. May cause sensitisation by skin contact.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide.

Isocyanates.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Avoid breathing vapours or mists.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Do NOT close container (evolution of carbon dioxide - CO2). Keep wet and put outdoors

in a secured place for a few days. Then dispose to of according to local / national regulations (see Section 13). Dyke far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later

disposal.

**Methods for cleaning up** 2%, Liquid dishwashing soap, a mixture of 90% water and 8-10% sodium carbonate.

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Decontaminate floor with decontamination solution letting stand for at least

15 minutes.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact

with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Avoid

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breathing vapours or mists.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and

immediately after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children. Protect from moisture.

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)

Hardener. Industrial use.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	United Kingdom
Diphenylmethane-diisocyanate, isomers and	-	TWA: 0.02 mg/m <sup>3</sup>
homologues		STEL: 0.07 mg/m³ SEN; as -NCO
9016-87-9		

Derived No Effect Level (DNEL) No information available

**Predicted No Effect Concentration** No information available. **(PNEC)** 

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be

exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166.

**Hand protection** Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use:.

Nitrile rubber. Viton™. Unsuitable protective clothing. Natural rubber. Disposable gloves.

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Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

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gloves. Gloves must conform to standard EN 374

**Skin and body protection** Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection. During spraying wear

suitable respiratory equipment.

Recommended filter type: Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases

and vapours filter conforming to EN 14387.

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceViscousColourBrownOdourEarthy.

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point< 10 °C</th>None knownInitial boiling point and boiling330 °C(1013 mbar)

range

Flammability Not applicable for liquids .

Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 204 °C Autoignition temperature >600 °C

Decomposition temperatureNo data availableNone knownpHNo data availableNot applicable.pH (as aqueous solution)No data availableNone knownKinematic viscosityNo data availableNone known

Kinematic viscosity

No data available

None kno
Dynamic viscosity

No data available

None kno
25 °C

Water solubility Reacts with water.

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative density1.22@ 20 °C

Bulk Density
No data available
Liquid Density
1.23 q/cm³

Relative vapour density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) No information available

VOC content No data available

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

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## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical

None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Contact with water (moisture) liberates carbon dioxide, which causes pressure increase

in closed containers. Exothermic reaction with. Amines. Alcohols.

Hazardous polymerisation Hazardous polymerisation may take place during a fire due to heat. Closed containers

could violently rupture.

10.4. Conditions to avoid

**Conditions to avoid** Excessive heat. Protect from moisture.

10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions.

### SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause sensitisation in

susceptible persons. (based on components). May cause irritation of respiratory tract.

Harmful by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Repeated or prolonged

skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. May cause additional

affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhoea.

## Symptoms related to the physical, chemical and toxicological characteristics

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**Symptoms** 

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause

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redness and tearing of the eyes.

Acute toxicity

**Numerical measures of toxicity** 

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diphenylmethane-diisocyanate,	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg	=1.5 mg/L (Rattus) 4 h
isomers and homologues		(Oryctolagus cuniculus)	

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit				Mild skin irritant
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation May cause sensitisation by inhalation. May cause sensitisation by skin contact.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin	Mouse		sensitising
Sensitisation: Local Lymph Node			
Assay			

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Contains a known or suspected carcinogen. Classification based on data available for Carcinogenicity

ingredients. Suspected of causing cancer.

Component Information

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Results
OECD Test No. 453: Combined Chronic	Rat	Carcinogenic
Toxicity/Carcinogenicity Studies		

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation.

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**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### **Ecotoxicity**

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
Diphenylmethane-diiso cyanate, isomers and	ErC50 (72h) >1640 mg/L	CL50 (96h) >1000 mg/L	-	EC50 (24H) >1000 mg/L		
homologues	Algae	(Danio rerio)		Daphnia magna		
9016-87-9	(scenedesmus subspicatus) (OECD 201)					

## 12.2. Persistence and degradability

Persistence and degradability No information available.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent	28 days	0% biodegradation	Not readily biodegradable
Biodegradability: Modified MITI Test	-	_	
(II)			

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

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#### 12.7. Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

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with local regulations.

Contaminated packaging Do not reuse empty containers.

**European Waste Catalogue** 08 05 01\* waste isocyanates

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous

substances

15 01 10\*: Packaging containing residues of or contaminated by dangerous substances

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

## SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number Not regulated 14.2 Proper Shipping Name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable None

14.6 Special Provisions

IMDG

14.1 UN number or ID number Not regulated Not regulated 14.2 Proper Shipping Name Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated

14.5 Marine pollutant NP 14.6 Special Provisions None

14.7 Maritime transport in bulk Not applicable according to IMO instruments

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number Not regulated 14.2 Proper Shipping Name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable 14.6 Special Provisions None

# Section 15: REGULATORY INFORMATION

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

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

#### **SVHC:** Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	56 74.
Diisocyantes		74

**56** . If product supplied to the general public with substance ≥0.1%, then gloves must be provided with the product. **74** If product supplied to the industrial or professional users with total monomeric diisocyanates ≥ 0.1%, then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use".

## Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### **Persistent Organic Pollutants**

Not applicable

## National regulations

## 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

### SECTION 16: Other information

## Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

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H373 - May cause damage to organs through prolonged or repeated exposure

Legend

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value
\* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure STOT SE Specific target organ toxicity - Single exposure

EWC European Waste Catalogue

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

RID Regulations concerning the International Transport of Dangerous Goods by Rail

#### Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

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Indication of changes

**Revision note** SDS sections updated, 3.

Training Advice When working with hazardous materials, regular training of operators is required by law

AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE

INDUSTRIAL OR PROFESSIONAL USE

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

### **Disclaimer**

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.

**End of Safety Data Sheet** 

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