

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

**SUPERGRIP 98** 

Supercedes Date: 23-Sep-2021

Revision date 11-Apr-2023 Revision Number 1.02

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

#### 1.1. Product identifier

Product Name SUPERGRIP 98

Pure substance/mixture Mixture

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

**Recommended use** Hot-melt adhesives This product contains isocyanates

Uses advised against Consumer use

### 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 (9am to 5pm Mon-Fri)

NHS: 111

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)

## 2.2. Label elements

Contains 4,4'-Methylenediphenyl diisocyanate



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#### Signal word

Danger

#### **Hazard statements**

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

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

H351 - Suspected of causing cancer.

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

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves/protective clothing/eye protection/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

P362 + P364 - Take off contaminated clothing and wash it before reuse

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.

#### **Additional information**

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

#### 2.3. Other hazards

Causes mild skin irritation.

#### 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

Not applicable

#### 3.2 Mixtures

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
4,4'-Methylenediphenyl diisocyanate	(615-005-00- 9) (615-035-00- 2) 202-966-0	101-68-8	1 - <5	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	01-2119457014- 47-XXXX

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

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

#### **Notes**

See section 16 for more information

Chemical name	Notes
4,4'-Methylenediphenyl diisocyanate - 101-68-8	C,2

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice If medical advice is needed, have product container or label at hand. IF exposed or

concerned: Get medical advice/attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Get immediate medical attention.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes. Consult an ophthalmologist.

Skin contact Molten . Solid: . Wash off immediately with soap and plenty of water. Removal of

solidified molten material from skin requires medical assistance. In the case of skin

irritation or allergic reactions see a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Self-protection of the first aider

See section 8 for more information.

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

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

or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and

irritation. Difficulty in breathing.

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

Note to doctors Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Keep victim under observation.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Suitable Extinguishing Media

Unsuitable extinguishing media Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

chemical

**Specific hazards arising from the** Thermal decomposition can lead to release of irritating gases and vapours.

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

Isocvanates.

5.3. Advice for firefighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout precautions for fire-fighters gear. Use personal protection equipment.

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

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

Personal precautions Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation. Use

personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Prevent product from entering drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and Methods for containment

place into a container for later disposal.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid breathing vapours or mists. Ensure adequate ventilation. In case of insufficient Advice on safe handling

ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing.

Use personal protection equipment.

Do not eat, drink or smoke when using this product. Wash hands before breaks and after General hygiene considerations

work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated **Storage Conditions** 

place. Keep away from food, drink and animal feedingstuffs. Store locked up.

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

#### 7.3. Specific end use(s)

#### Specific use(s)

This product contains isocyanates. Hot-melt adhesives.

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

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Other information Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	United Kingdom
4,4'-Methylenediphenyl diisocyanate	-	TWA: 0.02 mg/m <sup>3</sup>
101-68-8		STEL: 0.07 mg/m <sup>3</sup>
		Sen+

Chemical name	European Union	Ireland	United Kingdom
4,4'-Methylenediphenyl	-	1 µmol/mol Creatinine (urine -	1 mmol isocyanate-derived
diisocyanate		urinary Diamine post task)	diamine/mol creatinine urine
101-68-8			

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DN	EL)		
4,4'-Methylenediphenyl diiso	ocyanate (101-68-8)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Dermal	50 mg/kg bw/d	
worker Short term Systemic health effects	Inhalation	0.1 mg/m <sup>3</sup>	
worker Short term Local health effects	Dermal	28700 μg/cm²	
worker Short term Local health effects	Inhalation	0.1 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Inhalation	0.05 mg/m³	
worker Long term Local health effects	Inhalation	0.05 mg/m³	

<b>Derived No Effect Level (DNE</b>	Derived No Effect Level (DNEL)				
4,4'-Methylenediphenyl diiso	4,4'-Methylenediphenyl diisocyanate (101-68-8)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer Short term Systemic health effects	Dermal	25 mg/kg bw/d			
Consumer Short term Systemic health effects	Inhalation	0.05 mg/m <sup>3</sup>			
Consumer Short term Systemic health effects	Oral	20 mg/kg bw/d			
Consumer Short term Local health effects	Dermal	17200 μg/cm <sup>2</sup>			
Consumer	Inhalation	0.05 mg/m³			

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Short term Local health effects			
Consumer Long term Systemic health effects	Inhalation	0.025 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	0.025 mg/m <sup>3</sup>	

# Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
4,4'-Methylenediphenyl diisocyanate (101-68-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Soil	1 mg/kg dry weight
Sewage treatment plant	1 mg/l
Freshwater - intermittent	10 mg/l

#### 8.2. Exposure controls

Engineering controls Molten . 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 Heat resistant gloves are recommended when handling molten materials. Gloves must

conform to standard EN 407. Unsuitable protective clothing. Wet gloves.

Skin and body protection

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

suitable respiratory equipment.

Wear suitable protective clothing.

**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 state Solid

Appearance Solid Blocks Granules

ColourBrownOdourCharacteristic.

Odour threshold No information available

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

Melting point / freezing point 60 °C Initial boiling point and boiling > 230 °C

range

Flammability No data available

Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 200 °C CC (closed cup)

Autoignition temperature 345 °C

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**Decomposition temperature** > 250 °C

pH . Not applicable. Insoluble in water.

pH (as aqueous solution)
No data available
Kinematic viscosity
No data available

**Dynamic viscosity** 30000 - 45000 mPa s Spindle 28 @ 5 rpm @ 140 °C

Water solubility Insoluble.

Solubility(ies) No data available Partition coefficient No data available

Vapour pressure < 0.01 hPa @ 20 °C

Relative density

Bulk Density

Liquid Density

Relative vapour density

1.0 - 1.2

No data available

No data available

No data available

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%)

VOC content 0 g/L 0 %

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

### SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** Stable under recommended storage conditions.

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 None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

**Hazardous decomposition**None under normal use conditions. Stable under recommended storage conditions. **products** 

SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Harmful by inhalation.

**Eye contact** Based on available data, the classification criteria are not met.

**Skin contact** May cause sensitisation by skin contact.

**Ingestion** Based on available data, the classification criteria are not met.

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

**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. Prolonged contact may

cause redness and irritation.

#### Acute toxicity

#### **Numerical measures of toxicity**

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) 30.60 mg/l

#### **Component Information**

Chemical n	ame	Oral LD50	Dermal LD50	Inhalation LC50
4,4'-Methylened	' '	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (Rattus) 4 h

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

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

#### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	Eye	0.1 mL	24 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

**Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

4.4'-Methylenediphenyl diisocyanate (101-68-8)

i, i mount of the contract of				
Method	Species	Exposure route	Results	
OECD GD 39	Rat	Inhalation	Sensitizing	

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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.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

### Component Information

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Results	
OECD Test No. 453: Combined Chronic	Rat	Limited evidence of a carcinogenic	
Toxicity/Carcinogenicity Studies		effect	

Chemical name	European Union	
4,4'-Methylenediphenyl diisocyanate	Carc. 2	

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

STOT - single exposure Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. STOT - 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

No information available. **Endocrine disrupting properties** 

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)
4,4'-Methylenediphenyl	ErC50 (72h)	>1000 mg/l	-	EC50 (24H)		
diisocyanate	>1640 mg/L	(Danio rerio)		>1000 mg/L		
101-68-8	Algae			Daphnia magna		
	(scenedesmus					
	subspicatus)					
	(OECD 201)					

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

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4.4'-Methylenediphenyl diisocyanate (101-68-8)

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**

Component Information

	Component information				
Chemical name		Partition coefficient			
	4,4'-Methylenediphenyl diisocyanate	4.51			

#### 12.4. Mobility in soil

No information available. Mobility in soil

#### 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.

Chemical name	PBT and vPvB assessment		
4,4'-Methylenediphenyl diisocyanate	The substance is not PBT / vPvB		

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of contents/container in accordance with local, regional, national, and

international regulations as applicable.

Handle contaminated packages in the same way as the product itself. Contaminated packaging

according to EWC

Waste codes / waste designations 08 04 09\* waste adhesives and sealants containing organic solvents or other 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 Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

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14.6 Special precautions for user

Special Provisions None

**IMDG** 

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

14.5 Marine pollutant NP14.6 Special precautions for user Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

#### Air transport (ICAO-TI / IATA-DGR)

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

14.6 Special precautions for user

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

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
4,4'-Methylenediphenyl diisocyanate	101-68-8	56[a].
		75.
		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

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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. 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

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

### Notes relating to the identification, classification and labelling of substances

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers

## Notes relating to the classification and labelling of mixtures

Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture

#### Legend

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

Ceiling Limit Value Ceiling Skin designation

Substance(s) of Very High Concern **SVHC** 

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

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

**EWC** European Waste Catalogue

European Agreement concerning the International Carriage of Dangerous Goods by **ADR** 

Road

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

RID Regulations concerning the International Transport of Dangerous Goods by Rail

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#### Key literature references and sources for data

No information available

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Indication of changes

**Revision note** SDS sections updated.

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 For further information, please contact:

https://www.safeusediisocyanates.eu/

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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