

# Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006,  
as amended by UK REACH Regulations SI 2019/758

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## ADH-S ADHESIVE

To be read in conjunction with  
ADH-S Adhesive Safety Data-Chemical Annex

### Section 1: Identification

#### 1.1. Product identifier

**Product name:** ADH-S ADHESIVE

**Product code:** EC2008

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

**Identified uses:** Adhesive

**Recommended restrictions on use:** For professional users only.

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

**Supplier:**

Axter Ltd, Harbour Landing, Fox's Marina,  
The Strand, Wherstead, Ipswich IP2 8NJ  
Tel: +44 (0) 1473 724056  
Email: [info@axterltd.co.uk](mailto:info@axterltd.co.uk)  
Website: [www.axter.co.uk](http://www.axter.co.uk)

#### 1.4 Emergency telephone:

Axter Ltd - +44 (0) 1473 724056  
(this line is open from 8.00 am to 5.30 pm, Monday to Friday).  
In the event of a medical enquiry involving this product, members of  
the public should contact:  
NHS 111  
a doctor or  
a local hospital accident and emergency department.  
The NPIS (National Poisons Information Service) helpline is available  
for enquiries from medical professionals only.  
Tel: 0344 892 0111

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Acute toxicity, Category 4  
H332: Harmful if inhaled.

Skin irritation, Category 2  
H315: Causes skin irritation.

Eye irritation, Category 2  
H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Acute toxicity, Category 4  
H332: Harmful if inhaled.

Skin irritation, Category 2  
H315: Causes skin irritation.

Eye irritation, Category 2  
H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2 Label elements

#### Hazard pictograms:



#### 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.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

Prevention:

P201 Obtain special instructions before use.

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection/ hearing protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and  
keep comfortable for breathing. Call a poison centre / doctor if you  
feel unwell.P342 + P311 If experiencing respiratory symptoms: Call a  
poison centre / doctor.**Hazardous components which must be listed on the label:**

Dichloromethane

Methylenediphenyl diisocyanate

4,4'-Methylenediphenyl diisocyanate

4,4'-Methylenediphenyl diisocyanate, oligomers

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-  
diisocyanatodiphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer,  
[(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol**Additional Labelling**

"As from 24 August 2023 adequate training is required before industrial or professional use."

EUH204

Persons already sensitised to diisocyanates may develop allergic reactions when using 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.Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact,  
with this product.

Contains isocyanates. May produce an allergic reaction.

**2.3 Other hazards**This substance/mixture contains no components considered to be either persistent, bioaccumulative and  
toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 3: Composition/Information about Components

### 3.2 Mixtures Components:

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
dichloromethane	75-09-2 200-838-9 602-004-00-3 01-2119480404-41-000	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30
methylenediphenyl diisocyanate	26447-40-5 247-714-0 615-005-00-9 01-2120770510-62-0000	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 (Respiratory system) STOT RE 2; H373	>= 20 - < 30
4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47-0000	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 (Respiratory system) STOT RE 2; H373 Aquatic Chronic 4; H413	>= 10 - < 20
Propane-1,2-diol, propoxylated	25322-69-4 500-039-8	Acute Tox. 4; H302	>= 1 - < 10
4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6 500-040-3 01-2119457013-49-0000	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Respiratory system) Carc. 2; H351	>= 1 - < 10
4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene) bis(oxy)]dipropanol and propane-1,2-diol	123714-19-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1B; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Respiratory system)	>= 1 - < 10
propylidynetrimethanol	77-99-6 201-074-9 01-2119486799-10-0000	Repr. 2; H361	>= 0,1 - < 1

The full text for all hazard statements is displayed in Section 16.

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### 4.1.1 General Advice

If on clothes, remove clothes.

Move the victim to fresh air.

Show this safety data sheet to the doctor in attendance.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### 4.1.2 Inhalation

Move affected person to fresh air at once. Get medical attention if any discomfort continues. In case of unconsciousness bring patient into stable side position for transport.

#### 4.1.3 Contact with the skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if any discomfort continues.

#### 4.1.4 Contact with the eyes

Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

#### 4.1.5 Ingestion

DO NOT induce vomiting. Get medical attention immediately.

Rinse mouth with water.

If conscious, drink plenty of water.

If symptoms persist, seek further medical attention.

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

None known.

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

No further relevant information available. If in doubt, get medical attention promptly.

## Section 5: Fire-fighting procedures

### 5.1 Extinguishing media

#### Suitable extinguishing means

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water mist

Foam

Dry powder

Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

Water with a full water jet.

#### Extinguishing means not recommended

Do not use water jet as an extinguisher, as this will spread the fire.

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

#### Specific hazards

No further relevant information available.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

No special protective measures against fire required.

#### Further information

In the event of fire, wear self-contained breathing apparatus.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### Special protective equipment for firefighters

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## Section 6: Procedures to adopt in case of accidental dispersal

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

Remove all sources of ignition.

Use personal protective equipment.

Use breathing protection against the effects of fumes/dust/aerosol.

Evacuate personnel to safe areas.

Ensure adequate ventilation.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

Prevent the material from reaching sewage system, holes and cellars.

### 6.3 Cleaning methods

Soak up with inert absorbent material (e.g.. sand, silica gel, acid binder, universal binder, sawdust).

Non-sparking tools should be used.

Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to section 13.

### 6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8. For disposal considerations see Section 13.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling:

Avoid formation of dust and aerosols.

Use only with adequate ventilation.

Take note of emission threshold.

Use solvent-proof equipment.

Ensure that suitable extractors are available on processing machines.

Handle with care.

Keep eye wash bottle available on working place.

Keep away from children.

#### Advice on protection against fire and explosion

Keep product and empty container away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. May form explosive mixtures in air. Highly volatile, flammable constituents are released during processing. In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage areas and containers:**

Keep dark, cool and dry. Store in cool place.  
Further information on storage conditions: Keep containers tightly closed in a dry, cool and well ventilated place. Store in a cool place. Heat will increase pressure and may lead to the container exploding.

**7.3 Specific end use(s)**

No further relevant information available.

**Section 8: Control of exposure / individual protection****8.1 Control parameters****Occupational exposure limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
dichloromethane	75-09-2	TWA	100 ppm 353 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	200 ppm 706 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	100 ppm 353 mg/m <sup>3</sup>	2017/164/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative.			
		STEL	200 ppm 706 mg/m <sup>3</sup>	2017/164/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative.			
methylenediphenyl diisocyanate	26447-40-5	TWA	0,02 mg/m <sup>3</sup> (NCO)	GB EH40
	Further information: Capable of causing occupational asthma.			
		STEL	0,07 mg/m <sup>3</sup> (NCO)	GB EH40
	Further information: Capable of causing occupational asthma.			
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 mg/m <sup>3</sup> (NCO)	GB EH40
	Further information: Capable of causing occupational asthma.			
		STEL	0,07 mg/m <sup>3</sup> (NCO)	GB EH40
	Further information: Capable of causing occupational asthma.			

**Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
methylenediphenyl diisocyanate	Workers	Dermal	Acute systemic effects	50 mg/kg
	Workers	Inhalation	Acute systemic effects	0,1 mg/m <sup>3</sup>
	Workers	Dermal	Local effects	28,7 mg/cm <sup>2</sup>
	Workers	Inhalation	Local effects	0,1 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	0,05 mg/m <sup>3</sup>
	Workers	Inhalation	Local effects	0,05 mg/m <sup>3</sup>
4,4'-methylenediphenyl diisocyanate	Workers	Eye contact	Local effects	
	Workers	Inhalation	Local, long-term	0,05 mg/m <sup>3</sup>
	Workers	Inhalation	Local, long-term	0,1 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
methylenediphenyl diisocyanate	Fresh water	> 1 mg/l
	Marine water	> 0,1 mg/l
	Soil	> 1 mg/kg
	Sewage treatment plant	> 1 mg/l
4,4'-methylenediphenyl diisocyanate	Soil	1 mg/kg
	Sewage treatment plant	1 mg/l
	Fresh water	1 mg/l
	Marine water	0,1 mg/l



## 8.2. Exposure controls

### Personal protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Please take care on national and local requirements.

### Eye/face protection

Tightly fitting safety goggles.

### Hand protection

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

The gloves need to be disposed after the penetration time and replaced by new ones.

Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

As protection from splashes gloves made of the following materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.

**Respiratory protection**

Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.

In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Ensure that suitable extractors are available on processing machines.

**Environmental exposure controls**

Keep container tightly sealed when not in use.

**Protective measures:**

Keep away from food, drink and animal feeding stuffs.

Instantly remove any soiled and impregnated garments.

Wash hands before breaks and immediately after handling the product.

Avoid contact with the eyes and skin.

Store protective clothing separately.

**Section 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

Appearance	Coloured liquid
Colour	Various colours
Odour	Characteristic
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Evaporation rate	Not determined
Relative vapour density	Not determined
Density	1.1 g/cm <sup>3</sup>

**Solubility(ies)**

Water solubility Not miscible or difficult to mix

Partition coefficient:  
noctanol/ water No data available

Auto-ignition temperature Not determined

Decomposition temperature Not applicable

**Viscosity**

Viscosity, kinematic  $\geq 20.5$  mm<sup>2</sup>/s

Explosive properties Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

**9.2. Other information**

**Other information** No information required.

**Refractive index** Not available

**Particle size** Not available

<b>Molecular weight</b>	Not available
<b>Volatility</b>	Not available
<b>Saturation concentration</b>	Not available
<b>Critical temperature</b>	Not available

## Section 10: Stability and Reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical Stability

No decomposition if used according to the specifications.

### 10.3 Possibility of hazardous reactions

Hazardous reactions: Develops readily flammable vapours/fumes.

### 10.4 Conditions to be avoided

Conditions to avoid: No further relevant information available.

### 10.5 Incompatible materials

#### Materials to avoid:

No further relevant information available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

#### Acute oral toxicity:

Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Acute inhalation toxicity:

Acute toxicity estimate: 3.69 mg/l  
Exposure time: 4 Hours  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### dichloromethane:

Acute oral toxicity: LD50 Oral (Rat): > 2.000 mg/kg

##### methylenediphenyl diisocyanate:

#### Acute inhalation toxicity:

Acute toxicity estimate: 1.5 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method

##### 4,4'-methylenediphenyl diisocyanate:

#### Acute inhalation toxicity:

Acute toxicity estimate: 1.5 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method

**4.4'-Methylenediphenyl diisocyanate, oligomers:**

Acute inhalation toxicity:	LC50: 1.5 mg/l
Exposure time:	4 Hours
Test atmosphere:	dust/mist
Acute toxicity estimate:	1.5 mg/l
Test atmosphere:	dust/mist
Method:	Calculation method

**4.4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1.3-diol, 2.4'- diisocyanatodiphenylmethane, 1.1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene) bis(oxy)]dipropanol and propane-1.2-diol:**

Acute inhalation toxicity:	LC50: 1.5 mg/l
Exposure time:	4 Hours
Test atmosphere:	dust/mist

**Section 12: Ecological Information****12.1. Toxicity****Components:****dichloromethane:**

Toxicity to fish:	LC50 (Pimephales promelas (fathead minnow)): 140.8 - 277.8mg/l
Exposure time:	96 Hours
Test Type:	flow-through test

**propylidynetrimethanol:**

Toxicity to fish:	LC50 (Cyprinodon sp. (minnow)): 21.700mg/l
Exposure time:	48 Hours
Test Type:	static test

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential****Components:****dichloromethane:**

Partition coefficient: noctanol/ water:	log Pow: 1.25
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**methylenediphenyl diisocyanate:**

Partition coefficient: noctanol/ water:	log Pow: 4.5
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**4.4'-methylenediphenyl diisocyanate:**

Partition coefficient: noctanol/water:	log Pow: 5.22
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**12.4. Mobility in soil****Product****Mobility**

Medium: Soil

Remarks: Do not allow product to reach ground water, water bodies or sewage system.

**12.5. Results of PBT and vPvB assessment****Product:****Assessment:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6. Other adverse effects**

No data available.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product:

Do not dispose of with domestic refuse.

Do not dispose of waste into sewer.

Hand over to disposers of hazardous waste.

The generation of waste should be avoided or minimized wherever possible.

Incinerate under controlled conditions in accordance with all local and national laws and regulations.

Disposal must be made according to official regulations.

#### Contaminated packaging:

Disposal must be made according to official regulations.

### 13.2 Disposal method

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## Section 14: Information concerning transport

### 14.1 UN Number

(ADN, ADR, RID, IMDG, IATA) 2810

### 14.2 UN proper shipping name

(ADN, ADR, RID, IMDG, IATA) TOXIC LIQUID, ORGANIC, N.O.S (DICHLOROMETHANE)

### 14.3 Transport hazard classes

ADN: 6.1

ADR: 6.1

RID: 6.1

IMDG: 6.1

IATA: 6.1



### 14.4 Packing group

	ADN	ADR	RID	IMDG	IATA (Cargo)	IATA_P (Passenger)
Packing group:	III	III	III	III	III	III
Classification Code	T1	T1	T1			
Hazard Identification Number:	60	60	60			
Labels:	6.1	6.1	6.1	6.1	Toxic	Toxic
Tunnel restriction code:		(E)				
EmS Code:				F-A, S-A		
Packing instruction (passenger aircraft):					663	655
Packing instruction (LQ):					Y642	Y642

**14.5. Environmental hazards** No

**14.6. Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

## Section 15: Statutory Information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Conditions of restriction for the following entries should be considered:

(Number on list 75, 3)

dichloromethane methylenediphenyl diisocyanate

(Number on list 74)

4.4'-methylenediphenyl diisocyanate

(Number on list 74)

benzoyl chloride methylenediphenyl diisocyanate

(Number on list 74)

4.4'-methylenediphenyl diisocyanate

(Number on list 74)

4.4'-Methylenediphenyl diisocyanate, oligomers

REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable

RoHS: 2011/65/EU, Restriction of Hazardous Substances: Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: Neither banned nor restricted

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

UK REACH List of substances subject to authorisation (Annex XIV): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:

Not applicable

Volatile organic compounds:

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Volatile organic compounds (VOC) content:

23.2 %

The components of this product are reported in the following inventories:

REACH: On the inventory, or in compliance with the inventory

## 15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

## Section 16: Other Information

### Hazard statements in full

H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

**Abbreviations**

Acute Tox.: Acute toxicity

Aquatic Chronic: Long-term (chronic) aquatic hazard

Carc : Carcinogenicity

Eye Irrit.: Eye irritation

Repr.: Reproductive toxicity

Resp. Sens.: Respiratory sensitisation

Skin Irrit.: Skin irritation

Skin Sens.: Skin sensitisation

STOT RE: Specific target organ toxicity - repeated exposure

STOT SE: Specific target organ toxicity - single exposure

2017/164/EU: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values

GB EH40: UK. EH40 WEL - Workplace Exposure Limits

2017/164/EU / STEL: Short term exposure limit

2017/164/EU / TWA: Limit Value - eight hours

GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period)

GB EH40 / STEL: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

AIIC - Australian Inventory of Industrial Chemicals

ASTM - American Society for the Testing of Materials

bw - Body weight

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen or Reproductive Toxicant

DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada)

ECHA - European Chemicals Agency

EC-Number - European Community number

ECx - Concentration associated with x% response

ELx - Loading rate associated with x% response

EmS - Emergency Schedule

ENCS - Existing and New Chemical Substances (Japan) ErCx - Concentration associated with x% growth rate response

GHS - Globally Harmonized System

GLP - Good Laboratory Practice

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 -



Half maximal inhibitory concentration

ICAO - International Civil Aviation Organization

IECSC - Inventory of Existing Chemical Substances in China

IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization

ISHL- Industrial Safety and Health Law (Japan)

ISO - International Organisation for Standardization

KECI - Korea Existing Chemicals Inventory

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships

n.o.s. - Not Otherwise Specified

NO(A)EC - No Observed (Adverse) Effect Concentration

NO(A)EL - No Observed (Adverse) Effect Level

NOELR - No Observable Effect Loading Rate

NZIoC - New Zealand Inventory of Chemicals

OECD - Organization for Economic Co-operation and Development

OPPTS - Office of Chemical Safety and Pollution Prevention

PBT - Persistent, Bioaccumulative and Toxic substance

PICCS - Philippines Inventory of Chemicals and Chemical Substances

(Q)SAR - (Quantitative) Structure Activity Relationship

REACH - Regulation (EC) No 1907/2006 of the European

Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SADT - Self-Accelerating Decomposition Temperature

SDS - Safety Data Sheet

SVHC - Substance of very high concern

TCSI - Taiwan Chemical Substance Inventory

TECI - Thailand Existing Chemicals Inventory

TSCA - Toxic Substances Control Act (United States)

UN - United Nations

UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information: This safety data sheet only contains information relating to safety and does not replace any product information or product specification.

Contact Point: Prepared by: Global Regulatory Department

[EU-MSDS@hbfuller.com](mailto:EU-MSDS@hbfuller.com)

**Classification of the mixture:****Classification procedure:**

Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 2	H373	Calculation method

The data contained in this SDS has been supplied as required by the EC REACH Regulation No. 1907/2006 and the EC Regulation No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company who are capable of acting on the information.

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