SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
Windglass glue
Product no.
5-132-0310
REACH registration number
Not applicable

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

Relevant identified uses of the substance or mixture
Bodywork protector treatment. Only for professional use.
Uses advised against
-
The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address
August Handel GmbH
Heinrich-Hertz-Str. 3b
DE-14532 Kleinmachnow b. Berlin
Germany
Phone: +49 30 217333 00
Contact person
-
E-mail
info@augusthandel.com
SDS date
2017-06-23
SDS Version
1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Sens. 1; H317
Resp. Sens. 1; H334
Carc. 2; H351
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

Signal word
Danger
Hazard statement(s)
May cause an allergic skin reaction. (H317)
May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)

Suspected of causing cancer. (H351)

Safety statement(s)

General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
Prevention	Avoid breathing . (P261).
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340).
Storage	Store locked up. (P405).
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

Hexamethylene,diisocyanate,oligomers, 4,4'-methylenediphenyl diisocyanate diphenylmethane-4,4'-diisocyanate

2.3. Other hazards

Additional labelling

Persons already sensitised to — 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. Do not use in paint spraying equipment.

Additional warnings

Tactile warning.

VOC

-

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Hexamethylene,diisocyanate,oligomers
IDENTIFICATION NOS.:	CAS-no: 28182-81-2 EC-no: 500-060-2 REACH-no: 01-2119485796-17
CONTENT:	4,5-5%%
CLP CLASSIFICATION:	Acute Tox. 4, STOT SE 3, Skin Sens. 1 H317, H332, H335

NAME:	4,4'-methylenediphenyl diisocyanate diphenylmethane-4,4'-diisocyanate
IDENTIFICATION NOS.:	CAS-no: 101-68-8 EC-no: 202-966-0 Index-no: 615-005-00-9
CONTENT:	0,9-1%%
CLP CLASSIFICATION:	Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2 H315, H317, H319, H332, H334, H335, H351, H373

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

ATEmix(inhale, vapour) > 20
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,16 - 0,24
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,16 - 0,24

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
Sensitisation: This product contains substances, which may produce an allergic reaction through inhalation. The allergic reaction is typically taking place within an hour subsequent to exposure. The reaction results in an inflammatory reaction to the lungs.

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

Nothing special

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

No specific requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on “Disposal considerations” in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL / PNEC

DNEL (Hexamethylene,diisocyanate,oligomers): 1 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers
DNEL (Hexamethylene,diisocyanate,oligomers): 0,5 mg/m3
Duration of Exposure: Long term – Local effects - Workers
PNEC (Hexamethylene,diisocyanate,oligomers): 0,127 mg/l
Exposure: Freshwater
PNEC (Hexamethylene,diisocyanate,oligomers): 0,0127 mg/l
Exposure: Marine water

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Exhaust air that contains the substances shall not be recirculated.Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: Combination filter A2P3. Class 2/3. Brown/White

Skin protection

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

Hand protection

Recommended: Natural rubber (latex)

Eye protection

No specific requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Pasta
Colour	Black
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	150000-250000 cps
Density (g/cm³)	1,36
Phase changes	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
Data on fire and explosion hazards	
Flash point (°C)	100
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
Solubility	
Solubility in water	Insoluble
n-octanol/water coefficient	No data available.
9.2. Other information	
Solubility in fat (g/L)	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
The product is stable under the conditions, noted in the section “Handling and storage”.

10.3. Possibility of hazardous reactions
Nothing special

10.4. Conditions to avoid
Nothing special

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
4,4'-methylenediphenyl diisoc...	Rat	LD50	Oral	>2000 mg/kg
	Rabbit	LD50	Dermal	>9400 mg/kg
4,4'-methylenediphenyl diisoc...	Rat	LC50	Inhalation	2,24 mg/l
	Rat	LD50	Oral	>5000 mg/kg
4,4'-methylenediphenyl diisoc...	Rat	LD50	Dermal	>2000 mg/kg
Hexamethylene,diisocyanate,oli...				
Hexamethylene,diisocyanate,oli...				

Skin corrosion/irritation
No data available.

Serious eye damage/irritation
No data available.

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

Germ cell mutagenicity
No data available.

Carcinogenicity
Suspected of causing cancer.

Reproductive toxicity
No data available.

STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
No data available.

Long term effects
Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The substances are classified as carcinogenic or listed by the Danish Working Environment Authority as substances suspected of being carcinogenic. The substances are covered by the DWEA's regulations on work involving the risk of cancer. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
4,4'-methylenediphenyl diisoc...				
4,4'-methylenediphenyl diisoc...	Fish	LC50	96 h	>1000 mg/l
Hexamethylene,diisocyanate,oli...	Algae	NOEC		1640 mg/l
	Crustacean	EC50	3h	3828 mg/l
Hexamethylene,diisocyanate,oli...	Daphnia	EC50	48h	>100 mg/l
	Algae	EC50	72h	>1000 mg/l
Hexamethylene,diisocyanate,oli...	Fish	LC50	96h	>100 mg/l
Hexamethylene,diisocyanate,oli...				

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
4,4'-methylenediphenyl diisoc...	No	No data available	No data available
Hexamethylene,diisocyanate,oli...	No	Closed Bottle Test	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
4,4'-methylenediphenyl diisoc...	Yes	No data available	4,51
Hexamethylene,diisocyanate,oli...	Yes	9,81	3,2

12.4. Mobility in soil
Hexamethylene,diisocyanate,oli...: Log Koc= 7,8 (Low mobility potential.).

12.5. Results of PBT and vPvB assessment
Contains epoxy compounds. See information supplied by the manufacturer.

12.6. Other adverse effects
This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment, This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product is covered by the regulations on hazardous waste.

Waste
EWC code

-

Specific labelling

-

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group
(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in 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¤.

The full text of identified uses as mentioned in section 1

-

Additional label elements

-

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:
The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

JW

Date of last essential change (First cipher in SDS version)

2017-06-23

Date of last minor change (Last cipher in SDS version)

2017-06-23