Quality No.: 4555X00000000

according to Regulation (EC) No. 1907/2006



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Spray

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Version 1

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

1.1 Product identifier

Trade name : ALEXSEAL C5120-Acrylic X Converter Spray

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

Use of the Sub-: Industrial serial painting

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Producer : Mankiewicz Gebr. & Co. (GmbH & Co. KG)

Georg-Wilhelm-Strasse 189

21107 Hamburg

Germany

Only for UK:

Supplied by Mankiewicz UK LLP 26 Ashville Way, Whetstone,

Leicester LE8 6NU

United Kingdom

Telephone +49 (0) 40 75103 0 Telefax +49 (0) 40 75103 375 E-mail address of person sdb info@umco.de

responsible for the SDS

1.4 Emergency telephone number

Emergency telephone num-: +44 1235 239670 (Carechem International)

ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single ex-H335: May cause respiratory irritation.

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 DE34 2003 0000 00959 2733 00
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 PBNKDEFF200
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posure, Category 3, Respiratory system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

> May cause an allergic skin reaction. H317

Harmful if inhaled. H332

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin

dryness or cracking.

Prevention: Precautionary statements

> Keep away from heat, hot surfaces, sparks, open P210

flames and other ignition sources. No smoking.

P261 Avoid breathing mist or vapours.

Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh P304 + P340 + P312

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

In case of fire: Use dry sand, dry chemical or P370 + P378

alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Hexamethylene diisocyanate, oligomers n-butyl acetate 2-methoxy-1-methylethyl acetate

Additional Labelling

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

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.

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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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature Hardener based on polyisocyanates

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		, ,
	Registration number		
Hexamethylene diisocyanate,	28182-81-2	Acute Tox. 4; H332	>= 50 - < 70
oligomers	500-060-2	Skin Sens. 1; H317	
	01-2119970543-34	STOT SE 3; H335	
		(Respiratory system)	
n-butyl acetate	123-86-4	Flam. Liq. 3; H226	>= 10 - < 20
	204-658-1	STOT SE 3; H336	
	607-025-00-1	(Central nervous	
	01-2119485493-29	system)	
		EUH066	
2-methoxy-1-methylethyl acetate	108-65-6	Flam. Liq. 3; H226	>= 1 - < 10
	203-603-9	STOT SE 3; H336	
	607-195-00-7	(Central nervous	
	01-2119475791-29	system)	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice In all cases of doubt, or when sickness symptoms persist,

seek medica lattention.

Never give anything by mouth to an unconscious person.

If inhaled Remove to fresh air, keep patient warm and at rest.

Irregular breathing/no breathing: artificial respiration.

If unconscious place in recovery position and seek medical

advice.

In case of skin contact Take off all contaminated clothing immediately.



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Wash skin thoroughly with soap and water or use recognised

skin cleanser.

Do NOT use solvents or thinners!

In case of eye contact Remove contact lenses, irrigate copiously with clean, fresh

water for at least 10 minutes, holding the eyelids apart and

seek medical advice.

If swallowed Do NOT induce vomiting.

> If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person.

Keep at rest.

4.2 Most important symptoms and effects, both acute and delayed

Risks May cause an allergic skin reaction.

Harmful if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol resistant foam, CO2, powders

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Fire will produce dense black smoke. Exposure to decomposi-

tion products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Appropriate breathing apparatus may be required.

Further information Cool endangered containers with water in case of fire.

DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO

ENTER DRAINS OR WATER COURSES!!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Exclude sources of ignition and ventilate the area.

Do not inhale vapours.

Refer to protective measures listed in sections 7 and 8. Immediately clean contaminated areas with following sub-

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stances:

Water 45 Vol.% Ethanol or Isopropyl Alcohol 50 Vol.% Ammonia solution (density=0,88) 5 Vol.%

Alternative applicable to that (not flammable): Sodium Carbonate 5 Vol.% Water 95 Vol.%

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dis-

pose according to local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13).

Clean preferably with a detergent; avoid use of solvents.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used!

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than

the occupational exposure limits.

Comply with the health and safety at work laws.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Advice on protection against fire and explosion

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads whentransferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures

with air.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container isnot a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on stor-

age conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place. Precautions should be taken to minimise exposure to atmospheric humidityor water: CO2 will be formed which in closed containers can result in pressurisation. DO NOT KEEP

THE CONTAINERS SEALED!

Advice on common storage

Keep away from oxidizing agents and strongly acid or alkaline

materials.

Recommended storage tem- : 5 - 35 °C

perature

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hexamethylene diisocyanate, oligomers	28182-81-2	TWA	0.02 mg/m3 (NCO)	GB EH40
	28182-81-2 TWA 0.02 r		atory sensitisers) can induce via an immunological irritant come hyper-responsive, furth tiny quantities, may cause regarded in severity from a runn exposed to a sensitiser will be identify in advance those who tances that can cause occupated a cause which may trigger the airway hyper-responsiveness. The latter substances are sitisers. Further information of Critical assessments of the easthma., Wherever it is reasont can cause occupational ast	a state of spe- or other mech- er exposure to espiratory y nose to ecome hyper- o are likely to ational asthma e symptoms of es, but which do not classified ean be found in vidence for onably practi- thma should be

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 Grau Gehr. Beteiligungs-GmbH

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 PBNKDEFF200
 DE85 2001 0020 0000 3732 05
 Sitz/Registergericht Hamburg: HRB 17189 Geschäftsführender Gesellschafter: Michael C. Grau



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standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information. STEL 0.07 mg/m3 GB EH40 (NCO) Further information: Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyperresponsive and it is impossible to identify in advance those who are likely to become hyper-responsive. Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitisers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information. 123-86-4 n-butyl acetate TWA 150 ppm GB EH40 724 mg/m3 GB EH40 STEL 200 ppm 966 mg/m3 STEL 150 ppm 2019/1831/E 723 mg/m3 Further information: Indicative

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 Geschäftsführender Gesellschafter: Michael O. Grau

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		TWA	50 ppm 241 mg/m3	2019/1831/E U	
	Further inform	Further information: Indicative			
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC	
	Further inform skin, Indicativ		possibility of significant uptal	ke through the	
		TWA	50 ppm 275 mg/m3	2000/39/EC	
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			ke through the	
		TWA	50 ppm 274 mg/m3	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	100 ppm 548 mg/m3	GB EH40	
		nose for which there	bed through the skin. The as are concerns that dermal ab	•	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Hexamethylene diisocya-	28182-81-2	isocyanate-derived	At the end of the	GB EH40
nate, oligomers		diamine (Isocya-	period of exposure	BAT
		nates): 1 µmol/mol		
		creatinine		
		(Urine)		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hexamethylene diiso- cyanate, oligomers	Workers	Inhalation	Long-term local ef- fects	0.5 mg/m3
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
ethyl 3- ethoxypropionate	Workers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	610 mg/m3
	Consumers	Inhalation	Long-term systemic effects	72.6 mg/m3
	Consumers	Oral	Long-term systemic effects	1.2 mg/kg bw/day

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	Consumers	Dermal	Long-term systemic effects	24.2 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
Hexamethylene diiso- cyanate, oligomers	Workers	Inhalation	Long-term local ef- fects	0.5 mg/m3
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
ethyl 3- ethoxypropionate	Workers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	610 mg/m3
	Consumers	Inhalation	Long-term systemic effects	72.6 mg/m3
	Consumers	Oral	Long-term systemic effects	1.2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	24.2 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Hexamethylene diisocyanate, oligomers	Sewage treatment plant	6.46 mg/l
n-butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.0018 mg/l
	Fresh water sediment	0.981 mg/kg dry weight (d.w.)
	Marine sediment	0.098 mg/kg dry



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		weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry
	Sen	weight (d.w.)
3-methoxybutyl acetate	Fresh water	0.007 mg/l
o memoxybatyr acetate	Marine water	0.007 mg/l
	Fresh water sediment	0.041 mg/kg dry
	Tresh water sediment	weight (d.w.)
	Marine sediment	0.004 mg/kg dry
	Warne Scamen	weight (d.w.)
	Sewage treatment plant	1000 mg/l
	Soil	0.004 mg/kg dry
	Goli	weight (d.w.)
ethyl 3-ethoxypropionate	Fresh water	0.061 mg/l
etriyi 3-etrioxypropionate	Marine water	0.006 mg/l
	Sewage treatment plant	50 mg/l
	Fresh water sediment	0.419 mg/kg dry
	Tiesii water seulillelit	weight (d.w.)
	Marine sediment	0.042 mg/kg dry
	Marine Seulinent	weight (d.w.)
	Soil	0.048 mg/kg dry
	GOII	weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
2-methoxy-1-methylethyl acetate	Marine water	0.064 mg/l
	Fresh water sediment	3.29 mg/kg dry
	Tresh water sediment	weight (d.w.)
	Marine sediment	0.329 mg/kg dry
	Marine Sediment	weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	0.29 mg/kg dry
	John	weight (d.w.)
Hexamethylene diisocyanate,	Sewage treatment plant	6.46 mg/l
oligomers		, and the second
n-butyl acetate	Fresh water	0.18 mg/l
,	Marine water	0.0018 mg/l
	Fresh water sediment	0.981 mg/kg dry
		weight (d.w.)
	Marine sediment	0.098 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry
		weight (d.w.)
3-methoxybutyl acetate	Fresh water	0.007 mg/l
	Marine water	0.001 mg/l
	Fresh water sediment	0.041 mg/kg dry
		weight (d.w.)
	Marine sediment	0.004 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	1000 mg/l
	Soil	0.004 mg/kg dry
		weight (d.w.)
ethyl 3-ethoxypropionate	Fresh water	0.061 mg/l
	Marine water	0.006 mg/l

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	Sewage treatment plant	50 mg/l
	Fresh water sediment	0.419 mg/kg dry weight (d.w.)
	Marine sediment	0.042 mg/kg dry weight (d.w.)
	Soil	0.048 mg/kg dry weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
	Marine water	0.064 mg/l
	Fresh water sediment	3.29 mg/kg dry weight (d.w.)
	Marine sediment	0.329 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	0.29 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and below the OEL (= Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Eye/face protection Wear safety goggles to protect against solvent splashes.

Hand protection

Remarks Adhere to the professional organisation rule "Use of protec-

tive gloves". Appropriate chemicals resistant glove tested in

compliance with EN 374.

Recommendation for protection against components general-

ly found in the products:

For short-term contact (i.e. splash protection):

Appropriate material: nitrile rubber, Neoprene

Material thickness: > 0.4 mmBreakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.

Skin and body protection Depending on the probability of the occurrence of dangerously explosive atmospheres, adapted protective clothing must

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 Grau Gebr. Beteiligungs-GmbH

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 PBNKDEFF200
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 Sitz/Registergericht Hamburg: HRB 17189 Geschläftsführender Gesellschafter: Michael O. Grau

ISO 9001,

according to Regulation (EC) No. 1907/2006



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be worn.

Respiratory protection By spraying: air-fed respirator.

By other operations than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of

charcoal filter andparticulate filter mask Use half-mask model with cartridge or air-fed.

Protective measures Persons with a history of asthma, allergies, chronic or recur-

rent respiratory disease should not be employed in any pro-

cess in which this preparation is used. Do not eat or drink during work - no smoking.

Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

Colour according product name

Odour characteristic

Boiling point/boiling range ca. 120 °C

Upper explosion limit 10.0 %(V)

Lower explosion limit 1.0 %(V)

33 °C Flash point

Method: ISO 13736

> 400 °C Auto-ignition temperature

Ha

No data available

Viscosity

Viscosity, kinematic $> 21 \text{ mm}^2\text{s}$

Flow time 14 s

> Cross section: 4 mm Method: DIN 53211

< 15 s

Cross section: 6 mm Method: ISO 2431

Solubility(ies)

Mankiewicz Gebr. & Co. (GmbH & Co. KS)

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Water solubility insoluble

: ca. 100 hPa (50 °C) Vapour pressure

Density : ca. 1.00 g/cm3 (20 °C)

9.2 Other information

Miscibility with water immiscible

< 3%(V)Solvent separation

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

There are no data available on the preparation itself.

10.4 Conditions to avoid

Conditions to avoid Stable under recommended storage and handling conditions

(See section 7).

10.5 Incompatible materials

Materials to avoid Keep away from oxidizing agents, strongly alkaline and

strongly acid materials in order to avoid exothermic reactions. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the

container.

10.6 Hazardous decomposition products

In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxiode, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

Product:

Acute toxicity estimate: 19.05 mg/l Acute inhalation toxicity

according to Regulation (EC) No. 1907/2006



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> Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Components:

Hexamethylene diisocyanate, oligomers:

Acute inhalation toxicity Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Hexamethylene diisocyanate, oligomers:

Species Mouse

Assessment May cause sensitisation by skin contact.

OECD Test Guideline 429 Method

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Components:

Hexamethylene diisocyanate, oligomers:

Assessment May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



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Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

The substance/mixture does not contain components consid-Assessment

> ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks Exposure of vapour concentration in excess of the stated

OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of con-

sciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in nonallergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and re-

versible damage.

Based on the properties of the isocyanate components and considering toxicological data on similar preparations: This preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a thightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity There are no data available on the preparation itself.

12.2 Persistence and degradability

Product:

Biodegradability Remarks: There are no data available on the preparation it-

self.

according to Regulation (EC) No. 1907/2006



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12.3 Bioaccumulative potential

Product:

Bioaccumulation Remarks: There are no data available on the preparation it-

self.

12.4 Mobility in soil

Product:

Mobility Remarks: There are no data available on the preparation it-

12.5 Results of PBT and vPvB assessment

Product:

This substance/mixture contains no components considered Assessment

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

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 Endocrine disrupting properties

Product:

Assessment The substance/mixture does not contain components consid-

> ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

There are no data available on the preparation itself.

The product should not be allowed to enter drains or water

courses.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Dispose of in accordance with local regulations.

Contaminated packaging Contaminated packaging should be emptied as far as possible

and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in

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agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 UN number or ID number

ADR UN 1263 **IMDG** UN 1263 IATA UN 1263

14.2 UN proper shipping name

ADR PAINT RELATED MATERIAL **IMDG** PAINT RELATED MATERIAL IATA PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR 3 **IMDG** 3 **IATA** 3

14.4 Packing group

ADR

Packing group Ш Classification Code F1 Hazard Identification Number 30 Labels 3 Tunnel restriction code (D/E)

If transported within the user's premises: To be transported Remarks

> always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of

conduct in case of incident or spillage.

IMDG

Ш Packing group Labels 3 **EmS Code** F-E, S-E

IATA (Cargo)

Packing instruction (cargo 366

aircraft)

Packing group Ш

Labels Flammable Liquids

IATA (Passenger)

Packing instruction (passen-355

ger aircraft)

Packing instruction (LQ) Y344 Packing group Ш

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Labels Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous no

Marine pollutant 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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory 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 3

822-06-0 (Number on list 74)

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial Volatile organic compounds

> emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 42.25 %, 423 g/l

VOC content excluding water

Other regulations:

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

SECTION 16: Other information

Full text of H-Statements

H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

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H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox. Acute toxicity Flam. Liq. Flammable liquids Skin Sens. Skin sensitisation

STOT SE Specific target organ toxicity - single exposure

2000/39/EC Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

2019/1831/EU Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

UK. EH40 WEL - Workplace Exposure Limits GB EH40 **GB EH40 BAT** UK. Biological monitoring guidance values

Limit Value - eight hours 2000/39/EC / TWA 2000/39/EC / STEL Short term exposure limit 2019/1831/EU / TWA Limit Value - eight hours 2019/1831/EU / STEL Short term exposure limit

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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

Other information

The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law. Adhere to the national sanitary and occupational safety regulations when using this product.

This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(2020/878).

Classification of the mixture:

Classification procedure:

Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	Calculation method

Department issuing safety data sheet

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GB / EN