

Printing date 19.03.2015 Version number 3 Revision: 19.03.2015

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

1.1 Product identifier

Trade name: Osmo Polyx®-Oil 2K Pure, component A

Article number: 6125/A

1.2 Relevant identified uses of the substance or mixture and uses

advised against No further relevant information available.

Application of the substance / the

mixture Coating compound/ Surface coating/ paint

Paint

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG

Affhüppen Esch 12 D-48231 Warendorf

Further information obtainable

from: Product safety department

Phone: +49 (0) 251 / 692 - 188 Fax: +49 (0) 251 / 692 - 462 e-mail: helmut.starp@osmo.de

1.4 Emergency telephone

number: emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German

and English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to

Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

Classification according to

Directive 67/548/EEC or Directive

1999/45/EC Not applicable.

Information concerning

particular hazards for human and

environment: The product does not have to be labelled due to the calculation procedure of the

"General Classification guideline for preparations of the EU" in the latest valid version.

Classification system: The classification is according to the latest editions of the EU-lists and extended by

company and literature data.

2.2 Label elements

Labelling according to Regulation

(EC) No 1272/2008 VoidHazard pictograms VoidSignal word VoidHazard statements Void

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Precautionary statements Although this product is not subject to identification regulations, we recommend that

the safety suggestions are observed.

Keep out of reach of children.

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

Additional information: Observe the general safety regulations when handling chemicals.

Always wear a dust mask when sanding.

Contains 2-butanonoxime. May produce an allergic reaction.

Information concerning

particular hazards for human and

environment: Warning:

Wash out any used cloth impregnated with this product immediately after use or store

in an airtight container (danger of self-ignition)

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.*vPvB*: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

After inhalation:

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product. Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and

effects, both acute and delayed Disziness

Headache

4.3 Indication of any immediate

medical attention and special

treatment needed No further relevant information available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant

foam.

For safety reasons unsuitable

extinguishing agents: Water with full jet

5.2 Special hazards arising from

the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

Additional information Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official

regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures Ensure adequate ventilation

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for

containment and cleaning up: Warm water and cleansing agent

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

6.4 Reference to other sections See Section 13 for disposal information.

No dangerous substances are released.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Use only in well ventilated areas.

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

Prevent formation of aerosols.

Information about fire - and

explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

Store in a cool location.

Information about storage in one

common storage facility: Do not store together with alkalis (caustic solutions).

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Do not store together with oxidising and acidic materials.

Further information about

storage conditions: None

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about

design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that

require monitoring at the

workplace: The product does not contain any relevant quantities of materials with critical values

that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment: General protective and hygienic

measures: Do not eat, drink, smoke or sniff while working.

Do not carry product impregnated cleaning cloths in trouser pockets.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Use suitable respiratory protective device only when aerosol or mist is formed.

Protection of hands: To avoid skin problems reduce the wearing of gloves to the required minimum.

Protective gloves

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

the preparation.

Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

Material of gloves Nitrile rubber, NBR

Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

For the permanent contact gloves made of the following materials

are suitable: Nitrile rubber, NBR

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

are suitable: Nitrile rubber, NBR

As protection from splashes gloves made of the following

materials are suitable: Nitrile rubber, NBR

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Eye protection: Goggles recommended during refilling

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Viscous
Colour: Yellowish
Odour: Mild

Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: not applicable

Flash point: >100 °C (DIN 53213)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density at 20 °C: 0.95-1.00 g/cm³ (DIN 51757)

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Viscosity:

Kinematic at 20 °C: 20-35 s s (DIN 53211/4mm)

Solvent content:

VOC (EC)
 < 50 g/l (VOC-max. = 500g/l (2010 A/j)
 9.2 Other information
 No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability
Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous

reactions Reacts with fabric soaked in the product (e.g. cleaning wool).

10.4 Conditions to avoid No further relevant information available.10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition

products: Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

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Additional information:

Warning:

Wash out any used cloth impregnated with this product immediately after use or store

in an airtight container (danger of self-ignition)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50	values	relevant	for	classification:

96-29-7 2-butanonoxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50 / 4h	>10.5 mg/l (rat)

Primary irritant effect:

on the skin: At long or repeated contact with skin it may cause dermatitis due to the degreasing

effect of the solvent.

on the eye: No irritating effect.

Sensitisation: Sensitising effect by skin contact is possible by prolonged exposure.

Additional toxicological

information: The product is not subject to classification according to the calculation method of the

General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any

harmful effects to our experience and the information provided to us.

Sensitisation Contains 2-butanonoxime. May produce an allergic reaction.

SECTION 12: Ecological information

12.1 Toxicity

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Aauatic	toxicity:
11900000	

96-29-7 2-butanonoxime

	201 mg/l (daphnia)
IC50 / 72h	11.8 mg/l (algae)
LC50 / 96h	>100 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for

water

Do not allow product to reach ground water, water course or sewage system.

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12.5 Results of PBT and vPvB assessment

PBT:Not applicable.vPvB:Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach

sewage system.

European waste catalogue

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

15 01 10 packaging containing residues of or contaminated by dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	-	

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SECTION 15: Regulatory information

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

National regulations:

VOC(EC) < 50 g/l (VOC-max. = 500 g/l (2010 A/i))

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: product safety department

Contact: Hr. Dr. Starp

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous

version altered.

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

1.1 Product identifier

Trade name: Hardener for Osmo Polyx®-Oil 2K Pure, Component B

Article number: 6125/B

1.2 Relevant identified uses of the substance or mixture and uses

advised against Use: Hardener for coating materials or adhesives for industrial and trade applications

Uses advised against: Not suitable for use in homeworker (DIY) applications.

Application of the substance / the

preparation Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG

Affhüppen Esch 12 D-48231 Warendorf

Further information obtainable

from: Product safety department

Phone: +49 (0) 251 / 692 - 188 Fax: +49 (0) 251 / 692 - 462 e-mail: helmut.starp@osmo.de

1.4 Emergency telephone

number: emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German

and English

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20: Harmful by inhalation.

Xi; Irritant

R37: Irritating to respiratory system.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

2.2 Label elements

Labelling according to Regulation

(EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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Hazard pictograms

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CH507

Signal word Warning

Hazard-determining components

of labelling: Hexamethylen-1,6-diisocyanat homopolymer

hexamethylene-di-isocyanate

Hazard statements H332 Harmful if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

Contains isocyanates. May produce an allergic reaction.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:Not applicable.vPvB:Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Substance

aliphatic polyisocyanate

Hexamethylen-1,6-diisocyanat homopolymer	50-100%
Xn R20; Xi R37; Xi R43	
① Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
hexamethylene-di-isocyanate	≤1%
00-1 Acute Tox. 3, H331	
& Resp. Sens. 1, H334	
Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3,	
H335	
	Hexamethylen-1,6-diisocyanat homopolymer Xn R20; Xi R37; Xi R43 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 hexamethylene-di-isocyanate T R23; Xn R42/43; Xi R36/37/38 Acute Tox. 3, H331 Resp. Sens. 1, H334 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3,

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Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information:Immediately remove any clothing soiled by the product.After inhalation:Supply fresh air; consult doctor in case of complaints.After skin contact:Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and

effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable

extinguishing agents: Water with full jet

5.2 Special hazards arising from

the substance or mixture During heating or in case of fire poisonous gases are produced.

Carbon monoxide (CO) Nitrogen oxides (NOx)

(Traces)

Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Protective equipment: Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage

system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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6.3 Methods and material for

containment and cleaning up: Pick up mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of the material collected according to regulations.

6.4 Reference to other sections See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and

explosion protection: Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Prevent any seepage into the ground. Store only in the original receptacle.

Information about storage in one

common storage facility: Store away from foodstuffs.

Further information about

storage conditions: Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

 $Additional\ information\ about$

design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

822-06-0 hexamethylene-di-isocyanate

WEL Long-term value: 0.1 mg/m³

as Co; Carc

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment: General protective and hygienic

measures: Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

Keep away from foodstuffs, beverages and feed.

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Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

In case of hypersensitivity of the respiratory tract and skin (e.g. asthmatics and those

who suffer

from chronic bronchitis and chronic skin complaint) it is inadvisable to work with the

product.

Protection of hands: Protective gloves

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

the preparation.

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on

further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be

calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

For the permanent contact gloves made of the following materials

are suitable: chemical resistant gloves (EN 374)

Butyl rubber, BR

Not suitable are gloves made of

the following materials: Nitrile rubber, NBREye protection: Safety glassesFace protection

Body protection: Use protective suit.

Protective work clothing

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Colour: Colourless
Odour: Light

Odour threshold: Not determined.

pH-value: Not applicable

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Safety data sheet

according to 1907/2006/EC, Article 31

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Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	285 °C (bei 1013 hPa DIN 53171)	
Flash point:	> 100 °C (DIN EN 22719)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	ca 435 °C (DIN 51794)	
Decomposition temperature:	ca. 150 °C	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Vapour pressure at 20 °C:	< 0.00001 hPa (EG A4)	
Density at 20 °C:	1.15 g/cm³ (DIN 51757)	
Relative density	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat	ter): 8.38 log POW	
Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C:	40 s (DIN 53211/6mm)	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability
Thermal decomposition /

conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous

reactions Reacts with alcohols.

Reacts with amines.

Decomposes with water, acids and alkalis.

Danger of bursting.

10.4 Conditions to avoid No further relevant information available.10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition

products: No hazardous decomposition products when stored and handled correctly.

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Keine gefährlichen Zersetzungsprodukte bei sachgemäßer Lagerung und Handhabung.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:			
28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer			
Oral	LD50	>5000 mg/kg (rat)	
Inhalative	LC50 / 4h	543 mg/l (rat) (OECD 403)	
822-06-0 hexamethylene-di-isocyanate			
Oral	LD50	738 mg/kg (rat)	
Dermal	LD50	593 mg/kg (rat)	

Primary irritant effect:

on the skin: At long or repeated contact with skin it may cause dermatitis due to the degreasing

effect of the solvent.

28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer

Dermal . litt irriterende (rabbit) (OECD 404)

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer

Inhalative . posity (mouse) (Lokaler Lymphknoten-Test (LLNA))

Other information (about

experimental toxicology): Animal tests and other research indicate that skin contact with diisocyanates can play a

role in

causing isocyanate sensitization and respiratory reaction.

Additional toxicological

information: The product shows the following dangers according to the calculation method of the

General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant Harmful

Special properties/effects: Over-exposure, especially when spraying coatings containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL). Prolonged contact with the skin may cause

tanning and irritant effects.

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CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Genotoxicity in vitro:

hexamethylene-1,6-diisocyanate homopolymer

Test type: Ames test; Result: negative; Method: OECD Test Guideline 471

Test type: Chromosome aberration test in vitro Result: negative; Method: OECD Test Guideline 473 Toxicological studies of a comparable product.

Test type: Point mutation in mammalian cells (HPRT test) Result: negative; Method: OECD Test Guideline 476 Toxicological studies of a comparable product.

12 Ecological information

12.1 Toxicity

Aquatic to:	xicity:
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28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer

EC50 / 48h > 100 mg/l (daphnia) (OECD 202) IC50 / 72h | 199 mg/l (algae) (OECD 201)

LC50 / 96h > 100 mg/l (Brachydanio rerio) (OECD 203)

12.2 Persistence and degradability Not easily biodegradable

12.3 Bioaccumulative potential

28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer

log POW | ca 8.38 (-)

12.4 Mobility in soil Surfa

Surface tension: ca. 46.5 mN/m at 20 °C

Oberflächenspannung: ca. 46,5 mN/m bei 20 °C

Ecotoxical effects:

Behaviour in sewage processing plants:

28182-81-2 Hexamethylen-1,6-diisocyanat homopolymer

EC0 / 3h >100 mg/l (daphnia)

EC50 > 10.000 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209)

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

The resin reacts with water at the interface forming CO2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g.

detergents) or by watersoluble solvents. Previous experience shows that polyurea is

inert and non-degradable.

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12.5 Results of PBT and vPvB assessment

PBT: Not applicable.*vPvB*: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach

sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Waste treatment methods

After final product withdrawal, all residues must be removed from containers (drip-free, powderfree or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be

invalidated. These containers can be

returned for recycling to the appropriate centres set up within the framework of the existing takeback scheme of the chemical industry. Containers must be recycled in

compliance with national legislation and environmental regulations.

14 Transport information

14.1 UN-Number		
ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
	Special precautions for user: Not dangerous cargo.	

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Slight smell. Keep dry. Avoid heat above +50 °C.

Keep away from foodstuffs, acids and alkalis.

UN "Model Regulation":

15 Regulatory information

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

National regulations:

Other regulations, limitations and

prohibitive regulations

Other regulations: The European Committee of Paint, Printing Ink and Artists' Colours Manufacturers' Associations (CEPE) provides the following information on coatings containing isocyanates: Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes - especially on breathing organs - and cause hypersensitivity reactions. Inhalation of vapor or spray mist may cause sensitisation. When handling paints containing isocyanates all precautions required for solvent-containing paints must be followed. Vapor and spray mist in particular should not be inhaled. Allergics and asthmatics as well as people prone to respiratory ailments should not work with isocyanate containing paints.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases	H315	Causes skin irritation	
Relevant phrases	H315	Causes skin irritation.	

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

R20 Harmful by inhalation.R23 Toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R42/43 May cause sensitisation by inhalation and skin contact.

R43 May cause sensitisation by skin contact.

Department issuing MSDS: product safety department

Contact: Hr. Dr. Starp

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Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous

version altered.

GB ·