

according to 1907/2006/EC, Article 31

Revision: 07.08.2024

Printing date: 07.08.2024

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name:

STAUF PUK 447 Component A

· Article number:

124280

Product Group

2-component polyurethane adhesive

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category

PC1 Adhesives, sealants

· Application of the substance / the preparation

Adhesives

· Remark:

Restricted to professional users.

- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

STAUF Klebstoffwerk GmbH Oberhausener Strasse 1 57234 Wilnsdorf, Germany +49-(0)2739-301-0

+49-(0)2739-301-200

1.4 Further information obtainable from:

quality management

QS@stauf.de

• 1.5 Emergency telephone number:

CARECHEM24- EU: +44 1235 239670

CARECHEM24 International, +44 1865 407333

SECTION 02: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
 Void
- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- · Hazard pictograms

Void

· Signal word

Void

Hazard statements

Void

- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT:

Not applicable.

vPvB:

Not applicable.

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PRODUCT: STAUF PUK 447 Component A

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SECTION 03: Composition/information on ingredients

- 3.2 Mixtures
- Description:

Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Void

• SVHC

Void

· Additional information:

For the wording of the listed risk phrases refer to section 16. Observe the safety data sheet for the hardener component.

SECTION 04: First aid measures

- · 4.1 Description of first aid measures
- · General information:

No special measures required.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash with water and soap.

Generally the product does not irritate the skin

· After eye contact:

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

Remove contact lenses, if present and easy to do.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse the mouth with water.

· 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.

SECTION 05: 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

No further relevant information available.

· 5.3 Advice for firefighters

Do not inhale explosion gases or combustion gases.

· Protective equipment:

Wear self-contained respiratory protective device.

Additional information

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

SECTION 06: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

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

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· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 07: Handling and storage

· 7.1 Precautions for safe handling

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

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:

No special requirements.

 Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store in dry conditions.

7.3 Specific end use(s)

No further relevant information available.

SECTION 08: Exposure controls/personal protection

- · 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
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work, use skin care products.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

- Respiratory protection: Not necessary if room is well-ventilated.
- Protection of hands: After use of gloves apply skin-cleaning agents and skin cosmetics.
- · Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Tightly sealed goggles
- Body protection: Protective work clothing

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PRODUCT: STAUF PUK 447 Component A

SECTION 09: Physical and che	(Contd. of page				
9.1 Information on basic physical and cher					
9.1 information on basic physical and cher General Information	nicai properties				
Appearance:					
Form:	Viscous				
Colour:	Beige				
Odour:	Weak, characteristic				
Odour threshold:	Characteristic				
Important information on protection of health and environment, and on	safety.				
pH .	Not determined.				
Boiling point or initial boiling point and boiling range	314 °C				
Flash point:	229 °C				
Flammability	Not applicable.				
Ignition temperature:	451 °C				
Decomposition temperature:	Not determined.				
Auto-ignition temperature:	Not determined.				
Lower and upper explosion limit					
Lower:	Not determined.				
Upper:	Not determined.				
Vapour pressure:	at 20 °C 1,0000 hPa				
Density:	1,8200 - 1,9000 g/cm3				
Vapour density	Not determined.				
Solubility					
water:	Not miscible or difficult to mix.				
Partition coefficient n-octanol/water (log value)	Not determined.				
Viscosity:					
Dynamic:	at 20 °C 130 - 180 Pa.s				
Solvent content:					
VOC (EC)	0,00 %				
9.2 Other information	No further relevant information available.				
Density and/or relative density					
Physical state	Fluid				

SECTION 10: Stability and reactivity

• 10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Stable if used and stored according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

· 10.4 Conditions to avoid

Moisture and water.

• 10.5 Incompatible materials:

No further relevant information available.

· Dangerous reactions

No dangerous reactions known.

10.6 Hazardous decomposition products: Does not decompose when used like intended.

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SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation

No irritant effect.

· Serious eye damage/irritation

Direct contact to eyes can be irritating.

· Respiratory or skin sensitisation

No sensitising effects known.

- · 11.2 Information on other hazards
- · Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity:

No further relevant information available.

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:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.5 Results of PBT and vPvB assessment
- PBT:

Not applicable.

vPvB:

Not applicable.

12.7 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. Disposal must be made according to official regulations.

European waste catalogue

08
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF
COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS
AND PRINTING INKS
08 04
wastes from MFSU of adhesives and sealants (including waterproofing products)

waste adhesives and sealants other than those mentioned in 08 04 09

- · Uncleaned packaging:
- · Recommendation:

08 04 10

Disposal must be made according to official regulations.

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Empty contaminated packagings thoroughly. They may be recycled after thorough and proper

SECTION 14: Transport information

•	14.1	UN	num	ber	or	ID	number	

Void ADR IMDG Void IATA Void

· 14.2 UN proper shipping name

ADR Void **IMDG** Void IATA Void

14.3 Transport hazard class(es)

ADR

Void Class **IMDG** Class Void **IATA** Void Class

14.4 Packing group

Void ADR **IMDG** Void **IATA** Void

· 14.5 Environmental hazards:

Not applicable.

 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Waterhazard class:

Water hazard class 1 (Assessment by list): slightly hazardous for water.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients is listed.
- Substances of very high concern (SVHC) according to UK REACH None of the ingredients is listed.
- 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:
 - quality management
- Date of previous version:

13.03.2024

Version number of previous version:

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Safety data sheet



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1.00

· 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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.



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SECTION 01: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name:

STAUF Hardener 5

- Article number: 124210
- Product Group Isocyanate hardener
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category

PC1 Adhesives, sealants

- Application of the substance / the preparation Hardening agent/ Curing agent
- Remark:

Restricted to professional users.

- 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

STAUF Klebstoffwerk GmbH Oberhausener Strasse 1 57234 Wilnsdorf, Germany +49-(0)2739-301-0 +49-(0)2739-301-200

· 1.4 Further information obtainable from:

quality management QS@stauf.de

• 1.5 Emergency telephone number:

CARECHEM24- EU, +44 1235 239670

England, +44 1865 407333

SECTION 02: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08

Resp. Sens. 1 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 - H351 Suspected of causing cancer.

STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 - H332 Harmful if inhaled.

Skin Irrit. 2 - H315 Causes skin irritation.

Eye Irrit. 2 - H319 Causes serious eye irritation.

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

STOT SE 3 - H335 May cause respiratory irritation.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

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GHS08 GHS07

- Signal word
 Danger
- Hazard-determining components of labelling: methylenediphenyl diisocyanate / diphenylmethanediisocyanate,isomeres and homologues / 4,4'-methylenediphenyl diisocyanate
- · Hazard statements

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

H351 Suspected of causing cancer.

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

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

EUH204 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P405 Store locked up.

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.

SECTION 03: Composition/information on ingredients

- · 3.2 Mixtures
- Description:

CAS Number

Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

26447-40-5 methylenediphenyl diisocyanate

homologues

70.00- 85.00

EC number: 247-714-0

Record number 01-2119457015-45-0001

Carc. 2

😵 Resp. Sens. 1 - H334, Carc. 2 - H351,

Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, STOT SE 3 - H335

9016-87-9 diphenylmethanediisocyanate,isomeres and

12,50- 25,00 (Contd. on page 3)

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Carc. 2

Resp. Sens. 1 - H334, Carc. 2 - H351,

Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, STOT SE 3 - H335

SECTION 04: First aid measures

· General information:

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

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· 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.

Remove contact lenses, if present and easy to do.

After swallowing:

Do not induce vomiting; call for medical help immediately.

- Information for doctor:
- · 4.2 Most important symptoms and effects, both acute and delayed

Headache

Irritation

Coughing

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

Symptomatic treatment (decontamination, vital functions)

SECTION 05: Firefighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for firefighters

No special measures required.

• Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

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

SECTION 06: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 07: Handling and storage

- · Handling:
- · 7.1 Precautions for safe handling

Use only in well ventilated areas.

Avoid contact with eyes, skin and clothes.

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:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store in dry conditions.

Protect from frost.

Protect from heat and direct sunlight.

7.3 Specific end use(s)

No further relevant information available.

SECTION 08: Exposure controls/personal protection

· Ingredients with limit values that require monitoring at the workplace

9016-87-9 diphenylmethanediisocyanate,isomeres and

homologues

WEL

 Short-term value
 0,07
 mg/m3

 Long-term value
 0,02
 mg/m3

Sen; as -NCO

101-68-8 4,4'-methylenediphenyl diisocyanate

WFI

 Short-term value
 0.07
 mg/m3

 Long-term value
 0.02
 mg/m3

Sen; as -NCO

· Ingredients with biological limit values:

101-68-8 4,4'-methylenediphenyl diisocyanate

BMGV

1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

· Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

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The usual precautionary measures are to be adhered to when handling chemicals. Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work, use skin care products.

Keep away from foodstuffs, beverages and feed.

- Respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory
 protective device when high concentrations are present.
- Protection of hands: Protective gloves
- Material of gloves
 Butyl rubber, BR
 Nitrile rubber, NBR
 Natural rubber, NR
- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed gogglesBody protection: Protective work clothing

SECTION 09: Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Appearance: Form: Fluid Colour: Brown Odour: Characteristic Odour threshold: Characteristic pH-value: Not determined. Change in condition Melting point/freezing point: 5°C Initial boiling point and boiling range: 200 °C 300 °C Flash point: Flammability (solid, gas): Not applicable. 400 °C Ignition temperature: Not determined. Decomposition temperature: Not determined. Auto-ignition temperature: Explosive properties: Not determined. Explosion limits: Lower: Not determined. Not determined. Upper: Vapour pressure: Not determined. Density: 1,2000 -1,2400 g/cm3 Solubility in / Miscibility with water: reacts s.Point 10 Viscosity: Dynamic: 25 °C 35 mPa.s at 15 -Solvent content: VOC (EC) 0.00 % 9.2 Other information No further relevant information available.

GB



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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

Exothermic reaction with amines and alcohols; reacts with water forming CO2; in closed containers, risk of bursting owing to increase of pressure.

· 10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials:

No further relevant information available.

• 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification:

9016-87-9 diphenylmethanediisocyanate,isomeres and

homologues

Oral, LD50: >2000 mg/kg (rat) Dermal, LD50: >9400 mg/kg (rat)

Inhalative, LC50/4h: 490 mg/l (rat) (Aerosol)

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral, LD50: >2000 mg/kg (rat) Dermal, LD50: >9400 mg/kg (Rabbit) Inhalative, LC50/4h: 0,368 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation

Irritant to skin and mucous membranes.

Serious eye damage/irritation

Irritating effect.

· Respiratory or skin sensitisation

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

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:

Harmful Irritant

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

9016-87-9 diphenylmethanediisocyanate,isomeres and

homologues

EC50 48h: >1000 mg/l (daphnie)

LC50/96h: > 1000 mg/l (Brachydanio rerio)

LC0: >1000 mg/l (fish)

01-68-8 4,4'-methylenediphenyl diisocyanate

EC50 48h: > 1000 mg/l (daphnie)

LC50/96h: > 1000 mg/l (Brachydanio rerio)

NOEL/ 72h: >10 mg/l (daphnie)

• 12.2 Persistence and degradability

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- No further relevant information available.
- Behaviour in environmental systems:
- 12.3 Bioaccumulative potential

No further relevant information available.

• 12.4 Mobility in soil

No further relevant information available.

- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 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

WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02
wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 08
other still bottoms and reaction residues

- Uncleaned packaging:
- Recommendation:

14.1 UN-Number

Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 Oli Hallibei	
ADR	Void
IMDG	Void
IATA	Void
• 14.2 UN proper shipping name IATA	Void
 14.3 Transport hazard class(es) ADR 	
Class	Void
IMDG	
Class	Void
IATA	
Class	Void
• 14.4 Packing group	
ADR	Void
IMDG	Void
IATA	Void

14.5 Environmental hazards:

Not applicable.

 14.6 Special precautions for user Not applicable.

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 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3, 56

- · National regulations:
- · Waterhazard class:

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

· 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:

quality management

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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.