



SAFETY DATA SHEET TAMPUR 150 ECO

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name TAMPUR 150 ECO

Product No. - 61

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

Application Hydrophilic Flexible Polyurethane Grout

Details of the supplier of the safety data sheet

Supplier Normet Asia-Pacific Pty Ltd
10 Ashwin Parade
Torrensville,
SA 5031
Australia
+61 (0)8 8152 7700
+61 (0)8 8152 0667
SDS@NORMET.COM

Emergency telephone number

Emergency telephone 1-800-557346 (24 HOURS)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

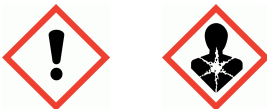
Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373

Environmental hazards Not Classified

Label elements

Hazard pictograms



Signal word DANGER

Hazard statements H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

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Precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe vapour/ spray.
 P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P284 Wear respiratory protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P314 Get medical advice/ attention if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 P330 Rinse mouth.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
 P362+P364 Take off contaminated clothing and wash before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene], triethyl phosphate, 4,4'-methylenediphenyl diisocyanate, 4,4'-Methylenediphenyl Diisocyanate, oligmers

Other hazards

HSNO Classification

SECTION 3: Composition and information on ingredients

Mixtures

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]	30-60%
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CAS number: 59675-67-1

Classification

Skin Irrit. 2 - H315
 Eye Irrit. 2A - H319
 Resp. Sens. 1 - H334
 Skin Sens. 1 - H317
 Carc. 2 - H351
 STOT SE 3 - H335
 STOT RE 2 - H373

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triethyl phosphate	30-60%
CAS number: 78-40-0	
Classification	
Acute Tox. 4 - H302	
4,4'-methylenediphenyl diisocyanate	10-30%
CAS number: 101-68-8	
Classification	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	
4,4'-Methylenediphenyl Diisocyanate, oligmers	5-10%
CAS number: 25686-28-6	
Classification	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	
o-(p-isocyanatobenzyl)phenyl isocyanate	<1%
CAS number: 5873-54-1	
Classification	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	

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

SECTION 4: First aid measures

Description of first aid measures

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General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Treat symptomatically.
Inhalation	IF INHALED: Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting.
Ingestion	IF SWALLOWED: Get medical attention immediately. If throat irritation or coughing persists, proceed as follows. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Stop if the affected person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin Contact	IF ON SKIN (or hair): Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing. Remove contaminated clothing.
Eye contact	IF IN EYES: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information	The product contains a sensitising substance. Treat symptomatically.
Inhalation	The product contains a sensitising substance.
Ingestion	May cause stomach pain or vomiting. May cause irritation. Gastrointestinal symptoms, including upset stomach.
Skin contact	The product contains a sensitising substance. May cause skin irritation.
Eye contact	May cause serious eye damage.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
Specific treatments	Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water, if avoidable.

Special hazards arising from the substance or mixture

Specific hazards	The product is not flammable. Irritating gases or vapours.
Hazardous combustion products	Harmful gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Oxides of nitrogen. Hydrogen cyanide (HCN).

Advice for firefighters

Protective actions during firefighting	No action shall be taken without appropriate training or involving any personal risk. Stop leak if safe to do so. If leakage cannot be stopped, evacuate area. Move containers from fire area if it can be done without risk.
Special protective equipment for firefighters	Use air-supplied respirator, gloves and protective goggles.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Follow precautions for safe handling described in this safety data sheet.

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evaluate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up

Methods for cleaning up If leakage cannot be stopped, evacuate area. Move containers from spillage area. Large Spillages: Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Small Spillages: Absorb small quantities with paper towels and evaporate in a safe place. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Usage precautions For professional users only. Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas. Protect from moisture. Keep container dry. Container must be kept tightly closed when not in use. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Conditions for safe storage, including any incompatibilities

Storage precautions Polymerises on contact with water or moisture. Store at temperatures between 4°C and 30°C. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Store away from the following materials: Acids. Alkalis. Protect from moisture.

Storage class Toxic storage.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

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Usage description Product is designed to be injected into voids with minimal exposed surface area, therefore exposure to product by operative is minimised. Manufacturer's instructions should be strictly adhered to.

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

4,4'-methylenediphenyl diisocyanate

Long-term exposure limit (8-hour TWA): 0.02 mg/m³

Short-term exposure limit (15-minute): 0.07 mg/m³

Carc. 2, Sen

o-(p-isocyanatobenzyl)phenyl isocyanate

Long-term exposure limit (8-hour TWA): AU OEL 0.2 mg/m³ (as NCO)

Short-term exposure limit (15-minute): AU OEL 0.07 mg/m³ (as NCO)

Carc. 2 = Suspected human carcinogen.

Sen = Respiratory and/or skin sensitiser.

Exposure controls

Protective equipment



Appropriate engineering controls

This product is not to be used under conditions of poor ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protection

Use protective clothing, hand gloves and goggles.

Eye/face protection

Use safety glasses with side shields that are consistent with EN 166, or local equivalent, are recommended.

Hand protection

To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber.

Other skin and body protection

Wear appropriate clothing to prevent skin contamination.

Hygiene measures

Wash hands thoroughly after handling. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.

Respiratory protection

Combination filter, type A2/P3.

Environmental exposure controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Coloured liquid.

Colour Brownish.

Odour Slight pungent.

Odour threshold Not determined.

pH Not determined.

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Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	> 165°C Open cup.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Flammability Limit - Lower(%)	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	1100 kg/m ³
Solubility(ies)	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	150 - 400 mPa s @ 25°C
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not applicable.
Density	1.1 g/cm ³

SECTION 10: Stability and reactivity

Reactivity	Reacts with water and moisture in the air
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	The following materials may react with the product: Water, moisture.
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
Materials to avoid	Avoid contact with the following materials: Strong alkalis. Amines. Alcohols.
Hazardous decomposition products	Heating may generate the following products: Hydrogen cyanide (HCN). Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x).

SECTION 11: Toxicological information

Information on toxicological effects

Toxicological effects	No specific test data are available. Information given is based on data of the components and of similar products.
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Acute toxicity - oral

Notes (oral LD₅₀) No specific test data are available.

ATE oral (mg/kg) 1,666.67

Acute toxicity - dermal

Notes (dermal LD₅₀) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No specific test data are available.

ATE inhalation (vapours mg/l) 36.69

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation

Skin sensitisation May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Summary Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Suspected of causing cancer.

Target organ for carcinogenicity Respiratory system, lungs

Reproductive toxicity

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure if inhaled.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. May cause inhalation hypersensitivity (occupational asthma) in sensitive individuals.

Toxicological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 9400 mg/kg, Oral, Rabbit

Acute toxicity - dermal

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Notes (dermal LD₅₀)	No specific test data are available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	No specific test data are available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Causes skin irritation.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<u>Skin sensitisation</u>	
Skin sensitisation	May cause sensitisation or allergic reactions in sensitive individuals.
<u>Germ cell mutagenicity</u>	
Summary	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.
Genotoxicity - in vivo	OECD 474: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	Suspected of causing cancer if inhaled.
<u>Reproductive toxicity</u>	
Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 4 mg/m ³ , Inhalation, Rat
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	May cause respiratory irritation.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure if inhaled.
Target organs	Respiratory tract
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.

triethyl phosphate

<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	500.0

4,4'-methylenediphenyl diisocyanate

<u>Acute toxicity - inhalation</u>	
ATE inhalation (vapours mg/l)	11.0
<u>Skin corrosion/irritation</u>	

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Skin corrosion/irritation	Irritating to skin.
Animal data	OECD 404 - Acute Dermal Irritation/Corrosion Species - Rabbit Route of exposure - Skin Result - Irritant
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on human occupational exposure data Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Guinea pig: Sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	- Mouse: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. OECD 474: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	OECD 453, Carcinogenicity Studies EU 2 years; 5 days per week , Inhalation, Rat Suspected of causing cancer.
Target organ for carcinogenicity	Lungs
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Product: Not available.
Reproductive toxicity - development	Teratogenicity: - OECD 414: 12 mg/m ³ , NOAEL, Rat
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Category 3 - Inhalation - Respiratory tract irritation
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Category 2 - Inhalation - Respiratory tract
<u>Aspiration hazard</u>	
Aspiration hazard	Aspiration hazard if swallowed.
<u>Inhalation</u>	
Inhalation	Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
<u>Ingestion</u>	
Ingestion	May cause irritation.
<u>Skin Contact</u>	
Skin Contact	Irritating to skin. May cause sensitisation by skin contact.
<u>Eye contact</u>	
Eye contact	Causes serious eye irritation.
<u>Route of exposure</u>	
Route of exposure	May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitised, a severe allergic reaction may occur when subsequently exposed to very low levels.

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Target Organs	Lungs Skin
Medical Symptoms	Asthma, pulmonary sensitisation. Coughing. Irritation of eyes and mucous membranes. Skin irritation.
<u>4,4'- Methylene-diphenyl Diisocyanate, oligmers</u>	
<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD ₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
<u>Acute toxicity - inhalation</u>	
ATE inhalation (vapours mg/l)	11.0
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Causes skin irritation.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	OECD 471: Negative.
Genotoxicity - in vivo	OECD 474: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	Inconclusive data. Contains a substance which has been shown to cause cancer in laboratory animals. May cause cancer by inhalation.
Target organ for carcinogenicity	Respiratory system, lungs
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Data lacking.
Reproductive toxicity - development	Teratogenicity: - OECD 414: , Inhalation, Rat No evidence of reproductive toxicity in animal studies.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	May cause respiratory irritation.
Target organs	Respiratory tract
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOEC 0.2 mg/m ³ , Dust/Mist, Rat

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Aspiration hazard

Aspiration hazard No data available.

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be toxic to aquatic organisms. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity No data is available on the product itself.

Ecological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Toxicity Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1000 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants No specific test data are available.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: ≥ 10 mg/l, Daphnia magna

4,4'-methylenediphenyl diisocyanate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: >1000 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: >10 mg/l, Daphnia magna

4,4'-Methylenediphenyl Diisocyanate, oligmers

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 1000 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates LC₅₀, 24 hours: > 1000 mg/l, Daphnia magna

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Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 1640 mg/l, Desmodosmus subspicatus
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: > 100 mg/l, Activated sludge
Acute toxicity - terrestrial	EC ₅₀ , 336 hours: > 1000 mg/kg, Eisenia Fetida (Earthworm)
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: ≥ mg/l, Daphnia magna

Persistence and degradability

Persistence and degradability The product is not expected to be biodegradable. The product reacts with water to form a solid, insoluble reaction product which is not biodegradable.

Ecological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Persistence and degradability Not readily biodegradable.

4,4'-methylenediphenyl diisocyanate

Persistence and degradability The product is not readily biodegradable. The product reacts with water to form a solid, insoluble reaction product which is not biodegradable.

Biodegradation Not expected to be readily biodegradable.

4,4'-Methylenediphenyl Diisocyanate, oligmers

Persistence and degradability Not readily biodegradable.

Biodegradation - Degradation 0%: 28 days

Bioaccumulative potential

Bioaccumulative Potential No data is available on the product itself.

Partition coefficient Not determined.

Ecological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Bioaccumulative Potential BCF: 200, Cyprinus carpio (Common carp)

4,4'-methylenediphenyl diisocyanate

Bioaccumulative Potential Reacts with water.

Partition coefficient log Pow: 4.51

4,4'-Methylenediphenyl Diisocyanate, oligmers

Bioaccumulative Potential BCF: 200, Cyprinus carpio (Common carp) Bioaccumulation is unlikely.

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Partition coefficient log Pow: 8.56 (20°C)

Mobility in soil

Mobility The product reacts with water to form a solid, insoluble reaction product which is not biodegradable.

Ecological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Mobility No information available.

4,4'-methylenediphenyl diisocyanate

Mobility The product reacts with water to form a solid, insoluble reaction product which is not biodegradable.

Adsorption/desorption coefficient No information available.

4,4'-Methylenediphenyl Diisocyanate, oligmers

Mobility No data available.

Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Other adverse effects Not known.

4,4'-methylenediphenyl diisocyanate

Other adverse effects No known significant effects or critical hazards.

4,4'-Methylenediphenyl Diisocyanate, oligmers

Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

General information Polymerises on contact with water or moisture. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste is classified as hazardous waste.

Disposal methods Dispose of contents/container in accordance with national regulations. Waste is classified as hazardous waste.

Waste class EWC Waste Code: 08 05 01 - Waste isocyanates.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADG).

TAMPUR 150 ECO**UN number**

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

Special precautions for user

Not applicable.

Transport in bulk according to Not applicable.**Annex II of MARPOL 73/78****and the IBC Code****SECTION 15: Regulatory information****SECTION 16: Any other relevant information**

Abbreviations and acronyms used in the safety data sheet	<p>ADG: Australian dangerous goods code</p> <p>IATA: International air transport association.</p> <p>IMDG: International maritime dangerous goods.</p> <p>LC₅₀: Lethal concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal dose to 50% of a test population (median lethal dose).</p> <p>NOEC: No observed effect concentration.</p> <p>vPvB: Very persistent and very bioaccumulative.</p> <p>PBT: Persistent, bioaccumulative and toxic substance.</p> <p>UN: United Nations.</p> <p>CAS: Chemical abstracts service.</p> <p>GHS: Globally harmonized system.</p>
General information	Only trained personnel should use this material.
Revision comments	This is the first issue.
Revision date	11/08/2020
Revision	1
SDS No.	6837

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Hazard statements in full

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H351 Suspected of causing cancer if inhaled.

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

H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.