



SAFETY DATA SHEET TAMPUR 150

According to Regulation (EC) No 1907/2006, Annex II

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

1.1. Product identifier

Product name TAMPUR 150
Product number 100023056 - 44

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

Identified uses Hydrophilic Flexible Polyurethane Grout

1.3. Details of the supplier of the safety data sheet

Supplier NORMET UK LTD
UNIT 5 WHEELER ROAD, SEVEN STARS INDUSTRIAL ESTATE, COVENTRY, CV3 4LB
0333 2409966
SDS@NORMET.COM

1.4. Emergency telephone number

Emergency telephone +44 (0) 207 858 1228 - 24 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Acute Tox. 2 - H330 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351
Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.

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Precautionary statements	<p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe vapour/spray.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 [In case of inadequate ventilation] wear respiratory protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
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Contains m-tolyldiene diisocyanate

Supplementary precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P310 Immediately call a POISON CENTER/doctor.</p> <p>P320 Specific treatment is urgent (see medical advice on this label).</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P405 Store locked up.</p>
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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

m-tolyldiene diisocyanate	1-5%
CAS number: 26471-62-5	EC number: 247-722-4
Classification	
Acute Tox. 1 - H330	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
Aquatic Chronic 3 - H412	

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Dibutyltin dilaurate	<1%
CAS number: 77-58-7	EC number: 201-039-8
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Repr. 1B - H360 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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.

4.2. 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.

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

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

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SECTION 5: Firefighting measures

5.1. 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.

5.2. 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 (CO₂). Oxides of nitrogen. Hydrogen cyanide (HCN).

5.3. 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.

SECTION 6: Accidental release measures

6.1. 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.

6.2. Environmental precautions

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

6.3. 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.

6.4. 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

7.1. Precautions for safe handling

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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.
7.2. Conditions for safe storage, including any incompatibilities	
Storage precautions	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.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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/personal protection

8.1. Control parameters

Occupational exposure limits

m-tolylidene diisocyanate

26471-62-5 m-tolylidene diisocyanate

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

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

Sen

as -NCO

584-84-9 4-methyl-m-phenylene diisocyanate

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

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

Sen

as -NCO

91-08-7 2-methyl-m-phenylene diisocyanate

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

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

Sen

as -NCO

Dibutyltin dilaurate

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³

Short-term exposure limit (15-minute): WEL 0.2 mg/m³

WEL = Workplace Exposure Limit

Sen = Capable of causing occupational asthma.

Reaction mass of: dimethyl adipate and dimethyl glutarate and dimethyl succinate

Biological limit values

TRGS 900, AGW:

1.2ppm, 8 mg/m³, (2(l))

If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).

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DNEL Workers - Inhalation; Long term local effects: 8.3 mg/m³
Consumer - Inhalation; Long term local effects: 5 mg/m³

PNEC - Fresh water; 0.018 mg/l
- Marine water; 0.0018 mg/l
- STP; 10 mg/l
- Water (temporarily release); 0.18 mg/l
- Sediment (Freshwater); 0.16 mg/kg

m-tolylidene diisocyanate (CAS: 26471-62-5)

DNEL Industry/Professional - Inhalation; Long term local effects: 0.035 mg/m³
Industry/Professional - Inhalation; Long term systemic effects: 0.035 mg/m³
Industry/Professional - Inhalation; Short term local effects: 0.14 mg/m³
Industry/Professional - Inhalation; Short term systemic effects: 0.14 mg/m³

PNEC Industry/Professional - STP; >1 mg/l
Industry/Professional - Fresh water; 0.013 mg/l
Industry/Professional - Marine water; 0.00125 mg/l
Industry/Professional - Soil; >1 mg/kg

8.2. 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). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. 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

9.1. Information on basic physical and chemical properties

Appearance	Clear, yellowish liquid.
Colour	Amber.
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	> 150°C CC (Closed cup).
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not applicable.
Solubility(ies)	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	450-600 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

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Reacts with water and moisture in the air

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product: Water, moisture.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Strong alkalis. Amines. Alcohols.

10.6. Hazardous decomposition products

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Hazardous decomposition products Heating may generate the following products: Hydrogen cyanide (HCN). Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on data on the components and the toxicology of similar products.

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 4130 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 9400 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ 101 mg/m³, Inhalation, Rat

ATE inhalation (vapours mg/l) 1.67

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Respiratory sensitisation

Respiratory sensitisation May cause sensitisation by inhalation.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro OECD 474 Mammalian Erythrocyte Micronucleus Test
Result: Negative

Carcinogenicity

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity

Reproductive toxicity - fertility Data lacking.

Specific target organ toxicity - single exposure

STOT - single exposure A single exposure may cause the following adverse effects: Irritation of respiratory tract

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not determined.

Aspiration hazard

Aspiration hazard Not classified based on available information.

Inhalation

The product contains a sensitising substance. Fatal if inhaled.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

The product is irritating to eyes and skin.

Eye contact

The product is irritating to eyes and skin.

Route of entry

Inhalation Ingestion Skin and/or eye contact

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SECTION 12: Ecological Information

Ecotoxicity Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: 100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 12.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 96 hours: 3230 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms EC₅₀, 3 hours: 100 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not determined.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information 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

14.1. UN number

UN No. (ADR/RID) 2206

UN No. (IMDG) 2206

UN No. (ICAO) 2206

UN No. (ADN) 2206

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ISOCYANATE SOLUTION, TOXIC, N.O.S. (contains m-tolyidene diisocyanate)

Proper shipping name (IMDG) ISOCYANATE SOLUTION, TOXIC, N.O.S. (contains m-tolyidene diisocyanate)

Proper shipping name (ICAO) ISOCYANATE SOLUTION, TOXIC, N.O.S. (contains m-tolyidene diisocyanate)

Proper shipping name (ADN) ISOCYANATE SOLUTION, TOXIC, N.O.S. (contains m-tolyidene diisocyanate)

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14.3. Transport hazard class(es)

ADR/RID class	6.1
ADR/RID classification code	T1
ADR/RID label	6.1
IMDG class	6.1
ICAO class/division	6.1
ADN class	6.1

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-A, S-A
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	60
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

