

SINGLE PLY PRIMER-SPP-38HT

According to 1907/2006/EC, Article 31

Product Name : SINGLE PLY PRIMER	Version : 01
Product Code : SPP-38HT	Initial Date : 01/01/2015
HS Code : 320890900001	Revision Date : 16/04/2021

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

Product name	SINGLE PLY PRIMER
Relevant Identified uses	Adhesives, sealants
Application of the substance/mixture	Priming
Manufacturer / Supplier	Techno Rubber Company Ltd
Address	PO Box 3508, Dammam 34326, Kingdom of Saudi Arabia
Telephone	+966 13 812 3333
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Association / Organisation	Techno Rubber Emergency Response
Telephone	+966 13 812 3333 (Sunday - Thursday 08:00-17:00)

SECTION 02: Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008	Liq. 2	H225 Highly flammable liquid and vapour.
	Skin Irrit. 2	H315 Causes skin irritation.
	Resp. Sens. 1 if inhaled.	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Repr. 2	H361d Suspected of damaging the unborn child.
	STOT SE 3	H336 May cause drowsiness or dizziness.
	STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
	Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.	

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 pictogram	    GHS02 GHS07 GHS08 GHS09
Signal word	Danger
Hazard-determining components of labelling	Toluene diphenylmethane diisocyanate, isomers and homologues Hydrocarbons, C7, n-alkanes, iso alkanes, cyclics
Hazard statements	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H361d Suspected of damaging the unborn child. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P301+P311 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
Other hazards	In the event of a large-scale use of the product, ignition sources in the immediate proximity and in low-lying areas, such as welding equipment, bells, heating elements, refrigerators, storage heaters, etc. should be switched off! Erect warning signs warning of the hazardous risk of explosive atmosphere! Results of PBT and vPvB assessment · PBT: Not applicable. vPvB: Not applicable.

SECTION 03: Composition/information on ingredients

Chemical characterization: Mixtures

Description: Primer

CAS: 108-88-3,EINECS: 203-625-9,Reg.nr.: 01-2119471310-510000	Toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3,H336	25-<50 %
EC number: 927-510-4,Reg.nr.: 01-2119475515-330000	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	25-<50 %

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	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 9016-87-9, EC number: 618-498-9	Diphenyl methane di isocyanate, isomers and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.5-<1%
CAS: 27936-43-2 EINECS: 248-740-5	Potassium nonyl phenolate Repr. 2, H361fd; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.2%
CAS: 140-66-9, EINECS: 205-426-2, Reg.nr.: 01-2119541687-290000	4-tert-octylphenol Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	<0.1%

Additional information

For the wording of the listed hazard phrases refer to section 16.

SECTION 04: First aid measures

4.1. Description of first aid measures

General information	Instantly remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Take affected persons into the open air.
After Inhalation	Supply fresh air; consult doctor in case of symptoms.
After skin contact	The product is not skin irritating.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing	Do not induce vomiting; instantly call for medical help.

4.2. Most important symptoms and effects

Both acute and delayed	No further relevant information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	No further relevant information available.
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SECTION 05: Fire-fighting measures

Extinguishing media	Use firefighting measures that suit the environment. Water haze Foam Fire-extinguishing powder Carbon dioxide
For safety reasons unsuitable extinguishing agents	Water with a full water jet.
Special hazards arising from the substance or mixture	Can be released in case of fire Carbon monoxide and carbon dioxide
Advice for firefighters Protective equipment	Do not inhale explosion gases or combustion gases.
Additional information	Collect contaminated firefighting water separately. It must not enter drains. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 06: Accidental release measures

Personal precautions , protective equipment and emergency procedures	Ensure adequate ventilation Keep away from ignition sources Wear protective clothing.
Environmental precautions	Inform respective authorities in case product reaches water or sewage system. Do not allow to enter drainage system, surface or ground water.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Send for recovery or disposal in suitable containers. Do not use tools that can cause ignition.
Reference to other sections	See section 7 for information on safe handling. See section 8 for information on personal protective equipment. See section 13 for disposal information.

SECTION 07: Handling and storage

7.1. Precautions for safe handling

Handling	Store in cool, dry place in tightly closed containers. Take note of emission threshold. Use solvent-proof equipment. Keep out of the reach of children.
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Information about protection against explosions and fires	 <p>Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Highly volatile, flammable constituents are released during processing. Fumes can combine with air to form an explosive mixture. Flammable mixtures may be formed in empty containers.</p>
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7.2. Conditions for safe storage, including any incompatibilities

Storage	<p>Requirements to be met by storerooms and containers: Prevent any penetration into the ground. Information about storage in one common storage facility: Store away from foodstuffs.</p>
Further information about storage conditions	<p>Protect from heat and direct sunlight. Store in cool, dry conditions in original sealed container</p>

7.3. Specific end use(s)

Specific end use(s)	No further relevant information available.
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SECTION 08: Exposure controls/Personal protection

8.1. Control parameters

Additional information about design of technical systems	No further data, see item 7.
Components with limit values that require monitoring at the workplace	<p>108-88-3 toluene WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk 9016-87-9 di phenyl methane diisocyanate, isomers and homologues WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO</p>
DNELs	<p>Toluene CAS 108-88-3 Inhalation short-term - local effects workers 343 mg/m³ Inhalation short-term - systemic effects workers 384 mg/m³ Inhalation long-term - local effects workers 192 mg/m³ Inhalation Long-term - systemic effects workers 192 mg/m³ Dermal Long-term - systemic effects Workers 384 mg/kg DIPHENYLMETHANDIISOCYANATE (CAS 101-68-8): Worker (short term): DNEL dermal – systemic effects: 50 mg/kg bw/day DNEL inhalation – systemic effects: 0,1 mg/m³ air DNEL dermal - local effects: 28,7 mg/cm² DNEL inhalation - local effects: 0,1mg/m³ air</p>

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	<p>Worker (long term) :</p> <p>DNEL dermal – systemic effects: no quantitative risk assessment possible</p> <p>DNEL inhalation – systemic effects: 0,05 mg/m³ air</p> <p>DNEL dermal - local effects: no quantitative risk assessment possible</p> <p>DNEL inhalation - local effects: 0,05 mg/m³ air</p>
PNECs	<p>Toluene CAS 108-88-3</p> <p>Freshwater 0.68 mg/l</p> <p>Sediment (fresh water) 16.39 mg/kg</p> <p>Soil 2.89 mg/kg</p> <p>Sewage treatment plant (STP) 13.61 mg/l</p> <p>DIPHENYLMETHANDIISOCYANATE (CAS 101-68-8):</p> <p>Diphenylmethan-4,4'-diisocyanat</p> <p>Fresh water: > 1 mg/l</p> <p>Marine wasser: > 0,1 mg/l Sediment: Not relevant</p> <p>Soil: > 1 mg/kg dry weight</p> <p>STP: > 1 mg/l</p> <p>Oral: Not relevant</p>
Additional information	The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures	<p>The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food.</p> <p>Take off immediately all contaminated clothing</p> <p>Wash hands during breaks and at the end of the work.</p> <p>Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.</p>
Breathing equipment	Use breathing protection in case of insufficient ventilation.
Recommended filter device for short term use	Combination filter A-P2
Protection of hands	 Solvent resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
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 cannot be calculated in advance and has therefore to be checked prior to the application.
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 safety glasses.
Body protection	Protective work clothing

SECTION 09: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Fluid
Colour	Red
Odour	Solvent-like
Odour threshold	Not determined
PH value	Not applicable
Melting point/ freezing point	Not determined
Initial boiling point and boiling range	81 °C (DIN 53171)
Flash point	-18 °C (DIN 53213)
Inflammability (solid, gaseous)	Not applicable
Decomposition temperature	Not determined
Self-inflammability	Product is not self-igniting
Explosive properties	Product is not explosive. However, formation of explosive air/steam mixtures is possible
Critical values for explosion	Lower: Not determined. Upper: Not determined
Vapor pressure	Not determined
Density at 20 °C	0.79 g/cm ³ (DIN 51757)
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water	Not miscible or difficult to mix
Partition coefficient: n- octanol/water	Not determined
Viscosity: dynamic	Not determined
kinematic	Not determined
Solvent content	Organic solvents: 85.1% Solids content: 14.9 % (ISO 3251)
Other information	No further relevant information available

SECTION 10: Stability and reactivity

Reactivity	No further relevant information available.
Chemical stability	
Thermal decomposition / Conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	Develops readily flammable gases / fumes
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects- Acute toxicity

Acute toxicity	Based on available data, the classification criteria are not met.
LD/LC50 values that are relevant for classification	<p>108-88-3 toluene:</p> <p>Oral LD50 5,001 mg/kg (rat)</p> <p>Dermal LD50 12,124 mg/kg (rab)</p> <p>Inhalative LC50/4h 49 mg/l (rat)</p> <p>9016-87-9 diphenyl methane diisocyanate, isomers and homologues:</p> <p>Oral LD50 >15,000 mg/kg (rat)</p> <p>Inhalative LC50/4h 11 mg/l (ATE)</p> <p>27936-43-2 Potassium nonylphenolate:</p> <p>Oral LD50 500 mg/kg (ATE)</p>

11.2. Primary irritant effect

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Additional toxicological information	<p>CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)</p> <p>Germ cell mutagenicity Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity Suspected of damaging the unborn child.</p> <p>STOT-single exposure May cause drowsiness or dizziness.</p> <p>STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.</p> <p>Aspiration hazard May be fatal if swallowed and enters airways.</p>

SECTION 12: Ecological information

Aquatic toxicity	<p>108-88-3 toluene: LC50/96h 36.2 mg/l (Pimephales promelas) 13 mg/l (Carassius auratus) IC50/72h 12 mg/l (Selenastrum capricornutum) EC50/48h 11.5 mg/l (Daphnia magna)</p> <p>9016-87-9 di phenyl methane diisocyanate, isomers and homologues: EC50/24h >1,000 mg/l (Daphnia magna) LC0/96h >1,000 mg/l (Brachydanio rerio) EC50/3h >100 mg/l (activated sludge)</p>
Persistence and degradability	9016-87-9 diphenyl methane di isocyanate, isomeres and homologues Bionedbrytning / 28 dagar 0 % (-)
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Ecotoxic effects	Remark: Toxic for fish
General notes	<p>Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.</p>
Results of PBT and vPvB assessment	<p>PBT: Not applicable vPvB: Not applicable</p>
Other adverse effects	No further relevant information available.

SECTION 13: Disposal considerations

Water treatment methods	<p>Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.</p>
Uncleaned packaging's	Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

UN-Number ADR, IMDG, IATA	UN1133
UN proper shipping name	<p>ADR 1133 Adhesives, Environmentally hazardous IMDG Adhesives (HEPTANES, 4-tert-octylphenol), Marine pollutant IATA Adhesives</p>

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<p>Transport hazard class(es) ADR, IMDG</p> <p>IATA</p>	  <p>Class 3 Flammable liquids Label 3</p>  <p>Class 3 Flammable liquids Label 3</p>
<p>Packing group ADR, IMDG, IATA</p>	<p>II</p>
<p>Environmental hazards Marine pollutant Special marking (ADR)</p>	<p>Product contains environmentally hazardous substances: Hydrocarbons, C7, n-alkanes, iso alkanes, cyclics Symbol (fish and tree) Symbol (fish and tree)</p>
<p>Special precautions for user Kemler Number EMS Number</p>	<p>Warning: Flammable liquids 33 F-E,S-D</p>
<p>Stowage Category</p>	<p>B</p>
<p>Transport in bulk according to Annex II of MARPOL and the IBC Code</p>	<p>Not applicable</p>
<p>Transport/Additional information</p>	<p>ADR Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>
<p>UN Model Regulation</p>	<p>UN 1133 Adhesives, 3, II, Environmentally hazardous</p>

SECTION 15: Regulatory information

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

<p>Directive 2012/18/EU Named dangerous substances - ANNEX I</p>	<p>None of the ingredients is listed</p>
<p>Seveso category</p>	<p>E2 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS Qualifying quantity (tones) for the application of lower-tier requirements 200 t Qualifying quantity (tones) for the application of upper-tier requirements 500 t</p>

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National regulations	Technical instructions (air)	
	Class	Share in %
	I NK	0.5-<1 50-100
Water hazard class	Water hazard class 2 (Self-assessment): hazardous for water	
VOC (EU) %	85.07 %	
Code MAL	5-3	
VOC (EU)	672.1 g/l	

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases	<p>H225 Highly flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Abbreviations and acronyms	<p>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods</p>

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	<p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>DNEL: Derived No-Effect Level (REACH)</p> <p>PNEC: Predicted No-Effect Concentration (REACH)</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal dose, 50 percent</p> <p>PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative</p> <p>Flam. Liq. 2: Flammable liquids – Category 2</p> <p>Acute Tox. 4: Acute toxicity – Category 4</p> <p>Skin Corr. 1B: Skin corrosion/irritation – Category 1B</p> <p>Skin Irrit. 2: Skin corrosion/irritation – Category 2</p> <p>Eye Dam. 1: Serious eye damage/eye irritation – Category 1</p> <p>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</p> <p>Resp. Sens. 1: Respiratory sensitisation – Category 1</p> <p>Skin Sens. 1: Skin sensitisation – Category 1</p> <p>Carc. 2: Carcinogenicity – Category 2</p> <p>Repr. 2: Reproductive toxicity – Category 2</p> <p>Repr. 2: Reproductive toxicity – Category 2</p> <p>STOT SE 3: Specific target organ toxicity (single exposure) – Category 3</p> <p>STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2</p> <p>Asp. Tox. 1: Aspiration hazard – Category 1</p> <p>Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1</p> <p>Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1</p> <p>Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2</p>
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Annex: Exposure scenario 1

Short title of the exposure scenario	TOLUENE (CAS 108-88-3) Industrial Use in rigid foams, coatings adhesives and sealants
Sector of Use	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
Product category	PC1 Adhesives, sealants

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	<p>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</p> <p>PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.</p> <p>PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.</p> <p>PROC4 Chemical production where opportunity for exposure arises</p> <p>PROC5 Mixing or blending in batch processes</p> <p>PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.</p> <p>PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities</p> <p>PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing).</p> <p>PROC14 Tableting, compression, extrusion, palletization, granulation</p> <p>PROC15 Use as laboratory reagent.</p>
Environmental release category	<p>ERC2 Formulation into mixture</p> <p>ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</p>
Description of the activities / processes covered in the Exposure Scenario	See full text of the descriptors in section 1.
Conditions of use	Customary application according to section 1.
Duration and frequency	5 workdays/week.
Physical parameters	The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
Physical state	Fluid
Concentration of the substance in the mixture	Raw material
Other operational conditions	Observe the normal safety regulations when handling chemicals
Other operational conditions affecting environmental exposure	Observe section 6 of the Safety Data Sheet (Accidental release measures).
Other operational conditions affecting worker exposure	<p>Do not breathe gas/fume/vapour/aerosol.</p> <p>Avoid contact with the skin and eyes.</p> <p>Keep away from food, drink and animal feedingstuffs.</p> <p>Keep away from sources of ignition - No smoking.</p>

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Risk management measures Worker protection Organizational protective measures	No special measures required.
Technical protective measures	Ensure that suitable extractors are available on processing machines.
Personal protective measures	The usual precautionary measures should be adhered to general rules for handling chemicals.
Exposure estimation Consumer	Not relevant for this Exposure Scenario.

Annex: Exposure scenario 2

Short title of the exposure scenario	Diphenylmethane-4,4'-di-isocyanate (CAS 101-68-8) Professional and Industrial use of Adhesives. Industrial Use in rigid foams, coatings adhesives and sealants.
Sector of Use	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites.
Product category	PC1 Adhesives, sealants PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions. PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition. PROC4 Chemical production where opportunity for exposure arises PROC5 Mixing or blending in batch processes PROC7 Industrial spraying PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities. PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing). PROC10 Roller application or brushing PROC13 Treatment of articles by dipping and pouring PROC14 Tableting, compression, extrusion, palletization, granulation PROC15 Use as laboratory reagent.
Environmental release category	ERC2 Formulation into mixture ERC3 Formulation into solid matrix ERC5 Use at industrial site leading to inclusion into/onto article

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	ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
Description of the activities / processes covered in the Exposure Scenario	See section 1 of the annex to the Safety Data Sheet.
Environment	Indoor and outdoor applications Avoid contact to soil and / or ground water during application
Physical parameters	The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
Physical state	Fluid
Concentration of the substance in the mixture	The substance is main component.
Other operational conditions	Observe the normal safety regulations when handling chemicals
Other operational conditions affecting environmental exposure	No special measures required.
Other operational conditions affecting worker exposure	Ensure adequate ventilation, especially in closed rooms. Avoid contact with eyes. Avoid contact with the skin. Avoid long-term or repeated skin contact. Avoid breathing particles.
Other operational conditions affecting consumer exposure during the use of the product	Not applicable.
Risk management measures	At product temperatures below 40°C for pure MDI or below 45°C for other MDI based substances. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). -At product temperatures above 40°C for pure MDI or above 45°C for other MDI based substances: Same as above, and: Provide extract ventilation to points where emissions occur or Provide extract ventilation to material transfer points and other openings or Handle in a fume cupboard or under extract ventilation or demonstrate, e.g. by workplace monitoring, that exposures are below the relevant worker DNEL values for acute and long-term.
Worker protection	The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing

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	<p>Wash hands during breaks and at the end of the work.</p> <p>Do not inhale gases / fumes / aerosols.</p> <p>Avoid contact with the eyes and skin.</p> <p>Use breathing protection in case of insufficient ventilation.</p>
Organizational protective measures	<p>Keep good industrial hygiene.</p> <p>Ensure good ventilation. This can be achieved by using a local exhaust or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.</p> <p>No special measures required.</p>
Technical protective measures	<p>Ensure that suitable extractors are available on processing machines.</p>
Personal protective measures	<p>Do not inhale dust / smoke / mist.</p> <p>Avoid contact with the skin.</p> <p>Avoid contact with the eyes.</p> <p>Tightly sealed safety glasses.</p> <p>Use breathing protection in case of insufficient ventilation. Protective gloves.</p>
Environmental protection measures-Water	<p>No special measures required.</p>
Disposal measures	<p>Ensure that waste is collected and contained.</p>
Disposal procedures	<p>Must not be disposed of together with household garbage. Do not allow product to reach sewage system.</p>
Waste type	<p>Partially emptied and uncleaned packaging.</p>
Exposure estimation	<p>Worker (dermal) The calculated value is smaller than the DNEL.</p> <p>Worker (inhalation) The calculated value is smaller than the DNEL.</p> <p>Consumer Not relevant for this Exposure Scenario.</p>

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, TRC Adhesives, Primers & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will TRC Adhesives, Primers & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.