



SAFETY DATA SHEET DOWSIL RSN 0805 RESIN

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

1.1. Product identifier

Product name	DOWSIL RSN 0805 RESIN
Product number	52808
Synonyms; trade names	XIAMETER RSN 0805 RESIN, DC RSN 0805 RESIN, DOW CORNING RSN 0805 RESIN

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

Identified uses	Additive Corrosion inhibitor. Surface coating
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	52808

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word

Warning

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Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure if inhaled. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
Contains	XYLENE, ETHYLBENZENE

2.3. Other hazards

Product is a static accumulator This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

XYLENE >=38.0 - <=39.0%		
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-XXXX
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		
ETHYLBENZENE >=11.0 - <=12.0%		
CAS number: 100-41-4	EC number: 202-849-4	REACH registration number: 01-2119489370-35-XXXX
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		

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-ZINC BIS(2-ETHYLHEXANOATE)		>=0.28 - <=0.38%
CAS number: 136-53-8	EC number: 205-251-1	
M factor (Acute) = 1		
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		

TOLUENE		>=0.17 - <=0.23%
CAS number: 108-88-3	EC number: 203-625-9	REACH registration number: 01-2119471310-51-XXXX
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		

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

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	First aid personnel should wear appropriate protective equipment during any rescue. Wear protective clothing as described in Section 8 of this safety data sheet.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Get medical attention.
Ingestion	Do not induce vomiting. Give one cup (240ml) of water or milk and transport to medical facility. Never give anything by mouth to an unconscious person.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues. Provide shower facilities near the workplace.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause respiratory irritation. May cause damage to organs (Hearing organs) through prolonged or repeated exposure if inhaled. A single exposure may cause the following adverse effects: May cause respiratory irritation. Central nervous system depression. Headache. Dizziness. Drowsiness. Unconsciousness.
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Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach.
Skin contact	Causes skin irritation. Dryness and/or cracking.
Eye contact	Causes serious eye irritation.

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

Notes for the doctor	Treat symptomatically. If in doubt, get medical attention promptly. Provide adequate ventilation.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Alcohol-resistant foam. Dry chemicals, sand, dolomite etc.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	May travel considerable distance to source of ignition and flash back. When heated and in case of fire, toxic vapours/gases may be formed. Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours may form explosive mixtures with air.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Benzene. Oxides of the following substances: Silicon. Carbon.

5.3. Advice for firefighters

Protective actions during firefighting	No action shall be taken without appropriate training or involving any personal risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire. Contain and collect extinguishing water. Control run-off water by containing and keeping it out of sewers and watercourses. Evacuate area.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. Ground/bond container and receiving equipment. Vapours may form explosive mixtures with air.
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6.2. Environmental precautions

Environmental precautions	Harmful to aquatic life with long lasting effects. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Use only non-sparking tools. Absorb spillage with inert, damp, non-combustible material. Use water spray to reduce vapours. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
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6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours and spray/mists. Keep container tightly sealed when not in use. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Avoid spilling. Avoid release to the environment. Use only non-sparking tools. Observe good chemical hygiene practices. Product residues retained in emptied containers can be hazardous. Provide adequate general and local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equipment. Ground/bond container and receiving equipment. Product is a static accumulator Earth container and transfer equipment to eliminate sparks from static electricity.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Only store in correctly labelled containers. Store locked up. Container must be kept tightly closed when not in use. Avoid heat, flames and other sources of ignition. Store away from the following materials: Strong oxidising agents. Organic Peroxide Flammable solid. Pyrophoric substance Self-heating In Contact with Water Emits Flammable Gas Explosive Class 2: Gases

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

TOLUENE

Sk

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m³

Sk = Can be absorbed through the skin.

WEL = Workplace Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limits

XYLENE (CAS: 1330-20-7)

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DNEL

Workers - Inhalation; Short term systemic effects: 289 mg/m³
 Workers - Inhalation; Short term local effects: 289 mg/m³
 Workers - Dermal; Long term systemic effects: 180 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 77 mg/m³
 Workers - Inhalation; Long term local effects: 77 mg/m³
 General population - Inhalation; Short term systemic effects: 174 mg/m³
 General population - Inhalation; Short term local effects: 174 mg/m³
 General population - Dermal; Long term systemic effects: 108 mg/kg/day
 General population - Inhalation; Long term systemic effects: 14.8 mg/m³
 General population - Oral; Long term systemic effects: 1.6 mg/kg/day

PNEC

- Fresh water; 0.327 mg/l
 - marine water; 0.327 mg/l
 - Intermittent release; 0.327 mg/l
 - STP; 6.58 mg/l
 - Sediment (Freshwater); 12.46 mg/kg
 - Sediment (Marinewater); 12.46 mg/kg
 - Soil; 2.31 mg/kg

ETHYLBENZENE (CAS: 100-41-4)

DNEL

Workers - Inhalation; Long term systemic effects: 77 mg/m³
 Workers - Inhalation; Short term local effects: 293 mg/m³
 Workers - Dermal; Long term systemic effects: 180 mg/kg/day
 General population - Inhalation; Long term systemic effects: 15 mg/m³
 General population - Oral; Long term systemic effects: 1.6 mg/kg/day

PNEC

- Fresh water; 0.1 mg/l
 - marine water; 0.01 mg/l
 - Intermittent release; 0.1 mg/l
 - STP; 9.6 mg/l
 - Sediment (Freshwater); 13.7 mg/kg
 - Sediment (Marinewater); 1.37 mg/kg
 - Soil; 2.68 mg/kg

-ZINC BIS(2-ETHYLHEXANOATE) (CAS: 136-53-8)

DNEL

Industry - Dermal; Long term systemic effects: 6.1 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 26.32 mg/m³
 Consumer - Oral; Long term systemic effects: 3.05 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 3.05 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 10.6 mg/m³

PNEC

- Fresh water; 20.6 µg/l, Zinc.
 - marine water; 6.1 µg/l, Zinc.
 - STP; 52 µg/l, Zinc.
 - Sediment (Freshwater); 117.8 mg/kg, Zinc.
 - Sediment (Marinewater); 56.5 mg/kg, Zinc.
 - Soil; 35.6 mg/kg, Zinc.

TOLUENE (CAS: 108-88-3)

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DNEL

Industry - Inhalation; Short term systemic effects: 384 mg/m³
 Industry - Inhalation; Long term systemic effects: 192 mg/m³
 Industry - Dermal; Long term systemic effects: 384 mg/kg/day
 Industry - Inhalation; Short term local effects: 384 mg/m³
 Industry - Inhalation; Long term local effects: 192 mg/m³
 Consumer - Inhalation; Short term systemic effects: 226 mg/m³
 Consumer - Inhalation; Long term systemic effects: 56.5 mg/m³
 Consumer - Oral; Long term systemic effects: 8.13 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 226 mg/kg/day
 Consumer - Inhalation; Short term local effects: 226 mg/m³
 Consumer - Inhalation; Long term local effects: 56.5 mg/m³

PNEC

- Fresh water; 0.68 mg/l
 - marine water; 0.68 mg/l
 - Intermittent release; 0.68 mg/l
 - STP; 13.61 mg/l
 - Sediment (Freshwater); 16.39 mg/l
 - Sediment (Marinewater); 16.39 mg/kg
 - Soil; 2.89 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 4 hours. Polyethylene. Polyvinyl alcohol (PVA). Polyvinyl chloride (PVC). Viton rubber (fluoro rubber). Butyl rubber. Chloroprene rubber. Rubber (natural, latex). Nitrile rubber. Thickness: > 0.35 mm To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear fire/flammable resistant/retardant clothing. Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. For the greatest protection, clothing should include anti-static overalls, boots and gloves.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

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Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter. Gas filter, type A EN 136/140/141/145/143/149
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Solvent.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	> 100°C @ 760 mm Hg
Flash point	23°C Pensky-Martens closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.010 @ 20°C
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	125 cSt @ 25°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information available.
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Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	The following materials may react with the product: Strong oxidising agents. When heated, vapours/gases hazardous to health may be formed. Will decompose at temperatures exceeding 150°C. Formaldehyde Provide adequate ventilation. Vapours may form explosive mixtures with air. Flammable liquid and vapour.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Organic Peroxide Flammable solid Pyrophoric substance Self-heating In Contact with Water Emits Flammable Gas Explosive Class 2: Gases
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Benzene. Oxides of the following substances: Silicon. Carbon.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD ₅₀)	This product has low toxicity. Not determined. Information given is applicable to the major ingredient. LD ₅₀ > 2000 mg/kg, Oral, Estimated value.
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Acute toxicity - dermal

Notes (dermal LD ₅₀)	Not determined. Information given is applicable to the major ingredient. LD ₅₀ > 2000 mg/kg, Dermal, Estimated value.
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ATE dermal (mg/kg)	2,857.14
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Acute toxicity - inhalation

Notes (inhalation LC ₅₀)	Not determined. A single exposure may cause the following adverse effects: May cause respiratory irritation. Central nervous system depression. Headache. Dizziness. Drowsiness. Unconsciousness.
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ATE inhalation (vapours mg/l)	24.16
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Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation. Dryness and/or cracking.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Information given is based on data of the components and of similar products. Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic. Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

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 (Hearing organs) through prolonged or repeated exposure if inhaled.

Aspiration hazard

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

Inhalation

May cause respiratory irritation. May cause damage to organs (Hearing organs) through prolonged or repeated exposure if inhaled. A single exposure may cause the following adverse effects: May cause respiratory irritation. Central nervous system depression. Headache. Dizziness. Drowsiness. Unconsciousness.

Ingestion

May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Target organs

Hearing organs

Toxicological information on ingredients.

XYLENE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 4300 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 1100 mg/kg, Dermal,

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 27.5 mg/l, Inhalation, Rat

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**ATE inhalation (vapours
mg/l)** 11.0

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin. Rabbit

Serious eye damage/irritation

**Serious eye
damage/irritation** Irritating to eyes. Fully reversible within 7 days.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

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

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

**Reproductive toxicity -
fertility** One-generation study, Fertility - , Inhalation, Vapour, Rat Negative.

**Reproductive toxicity -
development** Teratogenicity: - : , Vapour, Inhalation, Rat Negative.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL (90d) 4.35 mg/l, Inhalation, Vapour, Rat

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation Harmful by inhalation. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

Ingestion May be fatal if swallowed and enters airways. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

Skin contact Harmful in contact with skin. Irritating to skin. Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.

Eye contact Causes serious eye irritation.

ETHYLBENZENE

DOWSIL RSN 0805 RESIN**Acute toxicity - oral**

Acute toxicity oral (LD₅₀
mg/kg) 3,500.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 3500 mg/kg, Oral, Rat

ATE oral (mg/kg) 3,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 5,001.0

Acute toxicity - inhalation

Acute toxicity inhalation
(LC₅₀ vapours mg/l) 17.2

Species Rat

Notes (inhalation LC₅₀) LC₅₀ (4h) 17.2 mg/l, Inhalation, Vapour, Rat Harmful if inhaled.

ATE inhalation (vapours
mg/l) 17.2

Skin corrosion/irritation

Skin corrosion/irritation No information available.

Serious eye damage/irritation

Serious eye
damage/irritation Not irritating. Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Patch test - Human: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. Gene mutation: Negative.

Genotoxicity - in vivo Gene mutation: Negative.

Carcinogenicity

Carcinogenicity No information available.

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity -
fertility Two-generation study - Negative. , Vapour, Inhalation, Rat

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Reproductive toxicity - development Developmental toxicity: - Negative.: , Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 75 ppm, Inhalation, Vapour, Rat May cause damage to organs (hearing organs) through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation Harmful if inhaled.

Ingestion May be fatal if swallowed and enters airways.

Skin contact Liquid may irritate skin.

Eye contact May cause temporary eye irritation.

-ZINC BIS(2-ETHYLHEXANOATE)

Toxicological effects No information available.

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat OECD 402

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ > 5.7 mg/l, 4 hours, Dust/Mist Rat

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin. OECD 405

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

Serious eye damage/irritation

Serious eye damage/irritation Irritating. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

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Reproductive toxicity - development Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye irritation.

Acute and chronic health hazards Suspected of damaging the unborn child.

TOLUENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,580.0

Species Rat

ATE oral (mg/kg) 5,580.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rabbit

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 28.1

Species Rat

ATE inhalation (vapours mg/l) 28.1

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating. Rabbit

Respiratory sensitisation

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Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

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

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility - , Inhalation, Vapour, Rat Negative.

Reproductive toxicity - development Suspected of damaging the unborn child. Teratogenicity: - : , Vapour, Inhalation, Rat Positive.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Target organs Liver Kidneys Central nervous system Eyes

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure if inhaled.
LOAEL (26 wk) 1.875 mg/l, Vapour, Inhalation, Rat

Target organs Eyes Liver Kidneys Central nervous system

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation May cause damage to organs through prolonged or repeated exposure if inhaled.
Vapours may cause drowsiness and dizziness.

Ingestion May be fatal if swallowed and enters airways.

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

Target organs Liver Kidneys Central nervous system

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

XYLENE

Ecotoxicity Harmful to aquatic life with long lasting effects.

ETHYLBENZENE

DOWSIL RSN 0805 RESIN

Ecotoxicity Harmful to aquatic life with long lasting effects.

-ZINC BIS(2-ETHYLHEXANOATE)

Ecotoxicity Harmful to aquatic life with long lasting effects.

TOLUENE

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

XYLENE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2-11 (Roccus saxatilis); 13,5 (Lepomis macrochirus); 21,0 (Phimepales promelas) mg/l,
LC₅₀, 96 hour: 2.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
OECD 203
Read-across data.
NOEC, 56 day: > 1.3 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1-5 mg/l, Daphnia magna
EC₅₀, 24 hour: 1 mg/l, Daphnia magna
OECD 202
Read-across data.

Acute toxicity - aquatic plants ErC₅₀, 72 hour: 4.36 mg/l, Pseudokirchneriella subcapitata
NOEC, 73 hours: 0.44 mg/l, Pseudokirchneriella subcapitata
OECD 201

Acute toxicity - microorganisms EC₅₀, 3 hour: >157 mg/l,
OECD 209
Read-across data.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates EC₁₀, 21 day: 1.91 mg/l, Daphnia magna
OECD 211
Read-across data.

ETHYLBENZENE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 4.2 mg/l, Oncorhynchus mykiss (Rainbow trout)
OECD 203

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.8 - 2.4 mg/l, Daphnia magna
OECD 202

Acute toxicity - aquatic plants EC₅₀, 72 hours: 5.4 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₅₀, 30 minutes: >152 mg/l, Activated sludge

DOWSIL RSN 0805 RESIN

Acute toxicity - terrestrial LC₅₀, 2 day: 0.047 mg/cm², Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 7 day: 0.96 mg/l, (Ceriodaphnia dubia)

-ZINC BIS(2-ETHYLHEXANOATE)

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: > 0.1 - 1 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 0.1 - 1 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: > 0.1 - 1 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 25 days: > 0.1 - 1 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: > 0.1 - 1 mg/l, Daphnia magna

TOLUENE

Toxicity Harmful to aquatic life.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 5.5 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.78 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 10 mg/l,

Acute toxicity - microorganisms EC₅₀, 24 hour: 84 mg/l, (Nitrosomonas sp.)

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 40 days: 1.39 mg/l, Oncorhynchus mykiss (Rainbow trout)
LOEC, 40 days: 2.77 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 day: 1 mg/l, Daphnia magna
NOEC, 7 day: 0.74 mg/l, (Ceriodaphnia dubia)

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

XYLENE

DOWSIL RSN 0805 RESIN

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 87.8%: 28 day
OECD 301F

ETHYLBENZENE

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 70 - 80%: 28 day
- Degradation 100%: 6 day
OECD 301E

-ZINC BIS(2-ETHYLHEXANOATE)

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 70%: 28 days
OECD 301D

TOLUENE

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 86%: 20 day

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.**XYLENE**

Bioaccumulative potential The product is not bioaccumulating. BCF: 5.4 - 25.9, Oncorhynchus mykiss (Rainbow trout)

Partition coefficient log Pow: 2.77 - 3.2

ETHYLBENZENE

Bioaccumulative potential BCF: < 100, Fish Read-across data.

Partition coefficient : 3.5

-ZINC BIS(2-ETHYLHEXANOATE)

Partition coefficient log Pow: > 5.7

TOLUENE

Bioaccumulative potential The product is not bioaccumulating. BCF: 90, Leuciscus idus (Golden orfe)

Partition coefficient log Pow: 2.65

DOWSIL RSN 0805 RESIN

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

XYLENE

Mobility The product is immiscible with water and will spread on the water surface.

ETHYLBENZENE

Mobility The product is insoluble in water.

-ZINC BIS(2-ETHYLHEXANOATE)

Mobility The product is soluble in water.

TOLUENE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Surface tension 0.0242 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

XYLENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ETHYLBENZENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

-ZINC BIS(2-ETHYLHEXANOATE)

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

TOLUENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

XYLENE

Other adverse effects Not determined.

DOWSIL RSN 0805 RESIN**-ZINC BIS(2-ETHYLHEXANOATE)**

Other adverse effects None known.

TOLUENE

Other adverse effects Not determined.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S. (CONTAINS XYLENE, ETHYLBENZENE)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS XYLENE, ETHYLBENZENE)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS XYLENE, ETHYLBENZENE)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (CONTAINS XYLENE, ETHYLBENZENE)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels**14.4. Packing group**

ADR/RID packing group III

IMDG packing group III

DOWSIL RSN 0805 RESIN

ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation 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).
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).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
This product may impact SEVESO storage regulations.

Restrictions (Annex XVII Regulation 1907/2006) CAUTION - Chemical may be subject to REACH RESTRICTIONS - see Annex XVII. This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 48 Entry number: 3

Seveso Directive - Control of major accident hazards P5c

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDL

All the ingredients are listed or exempt.
DSL

DOWSIL RSN 0805 RESIN

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

Taiwan - TCSI

All the ingredients are listed or exempt.

SECTION 16: Other information

DOWSIL RSN 0805 RESIN

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

24/04/2022

Version number

5.000

Supersedes date

22/05/2020

SDS number

52808

DOWSIL RSN 0805 RESIN

SDS status

Approved.

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Signature

Lisa Bland

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.



Exposure scenario

Use in Oil and Gas field drilling and production operations - Industrial

Identification

Product name	Toluene
REACH registration number	01-2119471310-51-XXXX
CAS number	108-88-3
EC number	203-625-9
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com

1. Title of exposure scenario

Main title	Use in Oil and Gas field drilling and production operations - Industrial
Process scope	Oil field well drilling and production operations (including drilling muds and well cleaning), including material transfers, onsite formulation, well head operations, shaker room activities and related maintenance.
Main sector	SU3 Industrial uses
<u>Environment</u>	
Environmental release category	ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
<u>Worker</u>	
Process category	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 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

2. Conditions of use affecting exposure (Industrial - Environment 1)

Control of environmental exposure

No exposure assessment presented for the environment. Quantitative exposure and risk assessment not possible due to lack of emissions to aquatic environment.

Use in Oil and Gas field drilling and production operations - Industrial

Product characteristics

Physical state Liquid, vapour pressure 0.5 - 10 kPa at STP
Readily biodegradable.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state Liquid, vapour pressure 0.5 - 10 kPa at STP

Concentration details Covers concentrations up to 100 %. Unless otherwise stated.

Amounts used

Not applicable.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Other given operational conditions affecting workers exposure

Temperature Assumes use at not more than 20°C above ambient temperature, unless stated differently.

Ventilation rate Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). , or:
Ensure operation is undertaken outdoors.

Assumes a good basic standard of occupational hygiene is implemented. Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Technical conditions and measures at process level (source) to prevent release

Technical protective measures Drain or remove substance from equipment prior to break-in or maintenance. Operate activity away from sources of substance emission or release. Store substance within a closed system.

Risk management measures

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. If above technical/organisational control measures are not feasible, then adopt following PPE: Wear a respirator conforming to EN140 with Type A filter or better.

3. Exposure estimation (Environment 1)

Environmental exposure Predicted exposures are not expected to exceed the applicable exposure limits (given in Section 8 of the SDS) when the operational conditions/risk management measures given in Section 2 are implemented.

4. Guidance to check compliance with the exposure scenario (Environment 1)

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

3. Exposure estimation (Health 1)

Exposure Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

4. Guidance to check compliance with the exposure scenario (Health 1)

Use in Oil and Gas field drilling and production operations - Industrial

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.