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SDS: 0060583

Date Prepared: 14-May-2026
Date of last significant revision: 14-May-2026
Version: 13

SAFETY DATA SHEET

Safety Data Sheet according to regulation (EC) No 1907/2006 & 1272/2008 and amendments

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER **SETAL® D RD 181 X**

Product Description: Polyester polyol

Unique Formula Identifier (UFI) 7F12-60UN-K00A-P98C

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended/Recommended Use: Binder

Uses advised against: -

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: Tennants Distribution Limited, Hazelbottom Road, Cheetham, Manchester, M8 0GR
For Product and all Non-Emergency Information call: +44(0)161 205 4454

1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY TELEPHONE NUMBER (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call: +44(0)844 335 0001.

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SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 and amendments
Flammable Liquid Hazard Category 3

Toxic To Reproduction Hazard Category 1B
Specific Target Organ Toxicity (STOT) - Single Exposure Hazard Category 3
Serious Eye Damage / Eye Irritation Hazard Category 2
Skin Sensitizer Hazard Category 1A
Aquatic Environment Long-term Hazard Category 3

2.2 LABEL ELEMENTS



Signal Word

Danger

Hazard Statements

H226 - Flammable liquid and vapour.
H360D - May damage the unborn child.
H335 - May cause respiratory irritation.
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Restricted to professional users.

Precautionary Statements

Precautionary statements on the label will be reduced as indicated in Regulation (EC) No 1272/2008, Article 28.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P201 - Obtain special instructions before use.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370 + P378 - In case of fire: Use CO₂, dry chemical, or foam to extinguish.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

2.3 OTHER HAZARDS

Not applicable

RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

ENDOCRINE DISRUPTOR INFORMATION**Endocrine disrupting - health:**

Not applicable

Endocrine disrupting - environment:

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Mixture

3.2 MIXTURES

Component / CAS No.	%	EC-No	REACH Registration Number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	EU - CLP EUH Codes
Xylene 1330-20-7	20 - 25	215-535-7	01-2119488216-32	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT Single 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412)	
Ethylbenzene 100-41-4	5 - <10	202-849-4	01-2119489370-35	Flam. Liq. 2 (H225) Acute Tox. 4 (H332) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412)	
2-Ethyl hexanoic Acid 149-57-5	<0.35	205-743-6	01-2119488942-23	Repr. 1B (H360D)	
Phthalic anhydride 85-44-9	< 0.1	201-607-5	01-2119457017-41	Acute Tox. 4 (H302) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1A (H317)	
Maleic anhydride 108-31-6	< 0.1	203-571-6	01-2119472428-31	Acute Tox. 4 (H302) STOT RE 1 (H372) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1A (H317)	EUH071
Toluene 108-88-3	< 0.15	203-625-9	01-2119471310-51	Flam. Liq. 2 (H225) Repr. 2 (H361d) STOT RE 2 (H373) STOT SE 3 (H336) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412)	

Component / CAS No.	REACH SVHC	M-Factor	CLP Specific	CLP Acute Toxicity
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			Concentration Limits	Estimates (ATEs)
Xylene 1330-20-7				Dermal ATE = 1100 mg/kg (converted) Inhalation ATE = 11 mg/l (vapors)(converted)
Ethylbenzene 100-41-4				Inhalation ATE = 17.8 mg/l (vapors)
Phthalic anhydride 85-44-9				oral (rat) ATE = 1530 mg/kg
Maleic anhydride 108-31-6			Skin Sens. 1A H317 C>=0.001%	Oral (rat) ATE = 1090mg/kg

XYLENE: Several REACH registrations cover the multi-constituent substance with xylene isomers, ethylbenzene (and toluene). The other REACH descriptions are:

Aromatic hydrocarbons, C8 (EC-No. 905-570-2)

Reaction mass of ethylbenzene and m-xylene and p-xylene (EC-No. 905-562-9)

Reaction mass of ethylbenzene and xylene (EC-No. 905-588-0)

See Section 16 for full text of H phrases.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention immediately.

Skin Contact:

Wash immediately with plenty of water and soap. Remove contaminated clothing and shoes without delay. Obtain medical attention. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Apply artificial respiration if patient is not breathing. Obtain medical attention immediately.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

None known.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

Unsuitable Extinguishing Media:

full water jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Keep containers cool by spraying with water if exposed to fire.

5.3 ADVICE FOR FIREFIGHTERS**Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See SDS Section 8 (Exposure Controls/Personal Protection).

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Prevent further leakage or spillage if safe to do so. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water. Remove sources of ignition.

6.4 REFERENCE TO OTHER SECTIONS

See Sections 7, 8 and 13 for additional information.

SECTION 7: HANDLING AND STORAGE**7.1 PRECAUTIONS FOR SAFE HANDLING**

Precautions: Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Special Handling Statements: Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values. Containers must be bonded and grounded when pouring or transferring material.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool, dry, well ventilated place and keep container tightly closed. Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material's flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. Keep away from sources of ignition - refrain from smoking. Avoid flammable gas mixtures. Take precautionary measures against electrostatic loading - earthing necessary during loading operations. Vapours may form explosive mixtures with air.

Storage Temperature: Ambient temperature

Reason: Quality.

Storage Class (TRGS 510): 3

7.3 SPECIFIC END USE(S)

Refer to Section 1 or Exposure Scenario if applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

1330-20-7 Xylene

United Kingdom: WEL (Workplace Exposure Limits)	50 ppm (TWA) 220 mg/m ³ (TWA) (skin) 100 ppm (STEL) 441 mg/m ³ (STEL)
Europe ILV (Indicative Limit Values):	50 ppm (TWA) 221 mg/m ³ (TWA) 100 ppm (STEL) 442 mg/m ³ (STEL) (skin)
Other Value:	Not established

100-41-4 Ethylbenzene

United Kingdom: WEL (Workplace Exposure Limits)	100 ppm (TWA) 441 mg/m ³ (TWA) (skin) 125 ppm (STEL) 552 mg/m ³ (STEL)
Europe ILV (Indicative Limit Values):	100 ppm (TWA) 442 mg/m ³ (TWA) 200 ppm (STEL) 884 mg/m ³ (STEL) (skin)
Other Value:	Not established

108-31-6 Maleic anhydride

United Kingdom: WEL (Workplace Exposure Limits)	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)
Europe ILV (Indicative Limit Values):	Not established
Other Value:	Not established

85-44-9 Phthalic anhydride

United Kingdom: WEL (Workplace Exposure Limits)	4 mg/m ³ (TWA) 12 mg/m ³ (STEL)
Europe ILV (Indicative Limit Values):	Not established
Other Value:	Not established

108-88-3 Toluene

United Kingdom: WEL (Workplace Exposure Limits)	50 ppm (TWA) 191 mg/m ³ (TWA) (skin) 100 ppm (STEL) 384 mg/m ³ (STEL)
Europe ILV (Indicative Limit Values):	50 ppm (TWA) 192 mg/m ³ (TWA) 100 ppm (STEL) 384 mg/m ³ (STEL) (skin)

Other Value: Not established

Biological Exposure Limit(s)

1330-20-7 Xylene

Biological Monitoring Guidance 650 mmol/mol creatinine Medium: urine Time: post shift Parameter: Methyl
Values (United Kingdom) hippuric acid
Biological Exposure Indices (ACGIH) 0.3 g/g creatinine (urine - end of shift)

100-41-4 Ethylbenzene

Biological Exposure Indices (ACGIH) 150 mg/g creatinine (urine - end of shift)

108-88-3 Toluene

Biological Exposure Indices (ACGIH) 0.02 mg/L (blood - prior to last shift of workweek)
0.03 mg/L (urine - end of shift)
0.3 mg/g creatinine (urine - end of shift)

Derived No Effect Level (DNEL):

Xylene (1330-20-7)

Use	Route	DNEL	Units	Effects Type
Worker	inhalation	442	mg/m ³	Short term, systemic
Worker	inhalation	442	mg/m ³	Short term, local
Worker	Dermal	212	mg/kg	Long term, systemic
Worker	inhalation	221	mg/m ³	Long term, systemic
General Population	inhalation	260	mg/m ³	Short term, systemic
General Population	inhalation	260	mg/m ³	Short term, local
General Population	Dermal	125	mg/kg/day	Long term, systemic
General Population	inhalation	65.3	mg/m ³	Long term, systemic
General Population	Oral	12.5	mg/kg/day	Long term, systemic
Worker	inhalation	221	mg/m ³	Long term, local
General Population	inhalation	65.3	mg/m ³	Long term, local

Ethylbenzene (100-41-4)

Use	Route	DNEL	Units	Effects Type
Worker	inhalation	77	mg/m ³	Long term, systemic
Worker	inhalation	293	mg/m ³	Long term, local
Worker	Dermal	180	mg/kg/day	Long term, systemic
General Population	inhalation	15	mg/m ³	Long term, systemic
General Population	Oral	1.6	mg/kg/day	Long term, systemic

2-Ethyl hexanoic Acid (149-57-5)

Use	Route	DNEL	Units	Effects Type
Worker	inhalation	14	mg/m ³	Long term, systemic
Worker	Dermal	2	mg/kg/day	Long term, systemic
General Population	inhalation	3.5	mg/m ³	Long term, systemic
General Population	Dermal	1	mg/kg/day	Long term, systemic
General Population	Oral	1	mg/kg/day	Long term, systemic

Phthalic anhydride (85-44-9)

Use	Route	DNEL	Units	Effects Type
Worker	inhalation	49.4	mg/m ³	Long term, systemic
Worker	Dermal	14	mg/kg/day	Long term, systemic
General Population	inhalation	8.7	mg/m ³	Long term, systemic
General Population	Dermal	5	mg/kg/day	Long term, systemic
General Population	Oral	5	mg/kg/day	Long term, systemic
General Population	Oral	25	mg/kg/day	Short term, systemic

Maleic anhydride (108-31-6)

Use	Route	DNEL	Units	Effects Type
Worker	inhalation	0.081	mg/m ³	Long term, systemic

Worker	inhalation	0.081	mg/m ³	Long term, local
Worker	inhalation	0.2	mg/m ³	Short term, systemic
Worker	inhalation	0.2	mg/m ³	Short term, local

Toluene (108-88-3)

Use	Route	DNEL	Units	Effects Type
Worker	inhalation	192	mg/m ³	Long term, systemic
Worker	inhalation	384	mg/m ³	Short term, systemic
Worker	inhalation	192	mg/m ³	Long term, local
Worker	inhalation	384	mg/m ³	Short term, local
Worker	Dermal	384	mg/kg/day	Long term, systemic
General Population	inhalation	56.5	mg/m ³	Long term, systemic
General Population	inhalation	226	mg/m ³	Short term, systemic
General Population	inhalation	56.5	mg/m ³	Long term, local
General Population	inhalation	226	mg/m ³	Short term, local
General Population	Dermal	226	mg/kg/day	Long term, systemic
General Population	Oral	8.13	mg/kg/day	Long term, systemic

Predicted No Effect Concentration (PNEC):**Xylene (1330-20-7)**

Compartment	PNEC	Units
Fresh water	0.327	mg/l
Marine water	0.327	mg/l
Intermittent water release	0.327	mg/l
Sewage treatment plant	6.58	mg/l
Sediment (fresh water)	12.46	mg/kg
Sediment (marine water)	12.46	mg/kg
Soil	2.31	mg/kg

Ethylbenzene (100-41-4)

Compartment	PNEC	Units
Fresh water	0.1	mg/l
Marine water	0.01	mg/l
Intermittent water release	0.1	mg/l
Sewage treatment plant	9.6	mg/l
Sediment (fresh water)	13.7	mg/kg
Sediment (marine water)	1.37	mg/kg
Soil	2.68	mg/kg
Oral (Secondary Poisoning)	20	mg/kg food

2-Ethyl hexanoic Acid (149-57-5)

Compartment	PNEC	Units
Sewage treatment plant	71.7	mg/l

Phthalic anhydride (85-44-9)

Compartment	PNEC	Units
Fresh water	1	mg/l
Marine water	0.1	mg/l
Sewage treatment plant	10	mg/l
Sediment (fresh water)	3.8	mg/kg
Sediment (marine water)	0.38	mg/kg
Soil	0.173	mg/kg

Maleic anhydride (108-31-6)

Compartment	PNEC	Units
Fresh water	0.038	mg/l
Marine water	0.0038	mg/l
Sediment (fresh water)	0.296	mg/kg
Sediment (marine water)	0.0296	mg/kg
Soil	0.037	mg/kg

Sewage treatment plant 44.6 mg/l

Toluene (108-88-3)

Compartment	PNEC	Units
Fresh water	0.68	mg/l
Marine water	0.68	mg/l
Sewage treatment plant	13.61	mg/l
Sediment (fresh water)	16.39	mg/kg
Sediment (marine water)	16.39	mg/kg
Soil	2.89	mg/kg

8.2 EXPOSURE CONTROLS

Engineering Measures:

Utilize a closed system process where feasible.

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure when spraying or curing at elevated temperatures.

Respiratory Protection:

For operations where inhalation exposure can occur use an approved respirator. Recommendations are listed below.

Other protective respiratory equipment may be used based on user's own risk assessment.

A full facepiece respirator also provides eye and face protection.

Cutting, grinding or sanding of parts fabricated after curing may create respirable dust particles. Respiratory protection appropriate for this dust may be required. Refer to components listed above for potential hazardous components in the dust.

Recommended:

Full Face Mask with organic vapor cartridge, Type A filter (BP >65°C)

Eye protection:

Prevent eye and skin contact.

Provide eye wash fountain and safety shower in close proximity to points of potential exposure.

Wear eye/face protection such as chemical splash proof goggles or face shield.

Skin Protection:

Prevent contamination of skin or clothing when removing protective equipment.

Barrier creams may be used in conjunction with the gloves to provide additional skin protection.

Wear impermeable gloves and suitable protective clothing.

Hand protection:

Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user's own risk assessment. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility etc.) is noticed.

The selected protective gloves have to satisfy the specifications of EU Regulation (EC) 2016/425 and standard EN ISO 374-1:2016.

Gloves for repeated or prolonged exposure - non exhaustive list:

Viton®/Butyl rubber, thickness: 0.7 mm, break through time: > 480 min

Gloves for short term exposure/splash protection - non exhaustive list:

Nitrile rubber (NBR), thickness: > 0.56 mm, break through time: < 60 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

Not suitable gloves - non exhaustive list:

Nitrile rubber (NBR), thickness: 0.12 mm

Neoprene rubber (NE), thickness: 0.13 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. It is recommended that a shower be taken after completion of workshift especially if significant contact has occurred. Work clothing should then be laundered prior to reuse. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home.

Environmental Protection:

See section 6.2.

Safe use information for the formulation & (re)packing of the mixture.

Consolidated from the exposure scenarios of the substances present in the mixture:

Process Category	PROC1 - Use in closed process, no likelihood of exposure PROC2 - Use in closed, continuous process with occasional controlled exposure (e.g. sampling)
Risk Management Measures and Operational Conditions	Covers percentage substance in the product up to 100 % (unless stated differently). Operation carried out for < 8 hours Avoid direct contact with the substance. Handle substance within a closed system. Clear spills immediately. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90%. Use suitable eye protection.
Process Category	PROC3 - Use in closed batch process (synthesis or formulation)
Risk Management Measures and Operational Conditions	Covers percentage substance in the product up to 100 % (unless stated differently). Operation carried out for < 8 hours Avoid direct contact with the substance. Handle substance within a closed system. Clear spills immediately. Provide extract ventilation to points where emissions occur. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) . Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90%. Use suitable eye protection.
Process Category	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC14 - Production of preparations or articles by tableting, compression, extrusion, pelettisation
Risk Management Measures and Operational Conditions	Covers percentage substance in the product up to 100 % (unless stated differently). Operation carried out for < 8 hours Avoid direct contact with the substance. Clear spills immediately. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90%. Use suitable eye protection.
Process Category	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Risk Management Measures and Operational Conditions	Covers percentage substance in the product up to 100 % (unless stated differently). Operation carried out for < 8 hours Avoid direct contact with the substance. Drain down and flush system prior to equipment break-in or maintenance. Clear spills immediately. Ensure material transfers are under containment or extract ventilation. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90%. Use suitable eye protection.

Process Category	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Risk Management Measures and Operational Conditions	Covers percentage substance in the product up to 100 % (unless stated differently). Avoid carrying out operation for more than 1 hour. Avoid direct contact with the substance. Drain down and flush system prior to equipment break-in or maintenance. Clear spills immediately. Ensure material transfers are under containment or extract ventilation. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90%. Use suitable eye protection.
Process Category	PROC15 - Use as laboratory reagent
Risk Management Measures and Operational Conditions	Covers percentage substance in the product up to 100 % (unless stated differently). Operation carried out for < 8 hours Avoid direct contact with the substance. Clear spills immediately. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Effectiveness: 90%. Use suitable eye protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	viscous liquid
Colour:	yellowish
Odor:	solvent
Odor Threshold:	See Section 8 for exposure limits.
Melting Point:	Not available
Boiling Point:	100 - 200 °C
Flammability:	Explosion will be caused by solvent contained in the final product.
Flammable Limits (% By Vol):	Not available
Flash point:	28 °C
Autoignition temperature:	Not available
Decomposition Temperature:	Not available
pH:	Not available
Viscosity (Kinematic):	6944 mm ² /s
Viscosity (Dynamic):	7500 mPa.s @ 23 °C
Solubility In Water:	Insoluble
Solubility In Solvent:	Not available
Partition coefficient n-octanol/water (log value):	Not available
Vapor Pressure:	Not available
Specific Gravity/Density:	1.08 g/cm ³
Relative Vapour density:	Not available
Particle characteristics:	Not applicable

9.2 OTHER INFORMATION

9.2.1 Information with regard to physical hazard classes

Not applicable

9.2.2 Other safety characteristics

Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY	No information available
10.2 CHEMICAL STABILITY	Stable
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	
Polymerization:	Will not occur
Conditions To Avoid:	None known.
10.4 CONDITIONS TO AVOID	Keep away from heat, spark and flame.
10.5 INCOMPATIBLE MATERIALS	Strong acids, bases, oxidizing agents
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide Carbon monoxide (CO)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN Regulation (EC) No 1272/2008

Likely Routes of Exposure: Oral, Skin, Eyes, Respiratory System.

Acute toxicity - oral: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - inhalation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin corrosion / irritation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Serious eye damage / eye irritation: Causes serious eye irritation

Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin sensitization: May cause an allergic skin reaction

Carcinogenicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Germ cell mutagenicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Reproductive toxicity: May damage the unborn child .

Specific target organ toxicity (STOT) - single exposure: May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Aspiration hazard: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

PRODUCT TOXICITY INFORMATION

ACUTE TOXICITY DATA

oral (gavage)	rat	Acute LD50	> 2500 mg/kg (tested)
dermal	rabbit	Acute LD50	> 2000 mg/kg
inhalation	rat	Acute LC50 4 hr	> 20 mg/l (Vapors)

Specific target organ toxicity (single exposure): May cause respiratory irritation.

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	rabbit	mild Irritating (tested)
Acute Irritation	eye	rat	Irritating

ALLERGIC SENSITIZATION

Sensitization	Skin	Severe Sensitizing
Sensitization	respiratory	No data

SUBACUTE/SUBCHRONIC TOXICITY

oral (gavage)	rat	No data
dermal	rat	No data

GENOTOXICITY

Assays for Gene Mutations

Ames Salmonella Assay	No data
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OTHER INFORMATION

The product toxicity information above has been estimated.

HAZARDOUS INGREDIENT TOXICITY DATA

Xylene has an acute oral LD₅₀ (rat) of > 3523 mg/kg, acute dermal LD₅₀ (rabbit) value of 4200 mg/kg, and an acute 4-hour LC₅₀ (rat) of 29 mg/l (vapor). Inhalation of vapors may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties, which may be delayed in onset. High vapor concentrations are anesthetic and central nervous system depressants. Ingestion causes burning sensation in mouth and stomach, nausea vomiting and salivation. Minute amounts aspirated into the lungs can produce a severe hemorrhagic pneumonitis with severe pulmonary injury or death. Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Skin contact results in moderate irritation and loss of natural oils. Repeated or prolonged skin contact may cause a skin rash. May be absorbed through the skin. Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage. Repeated exposure of eyes to high concentrations of vapor may cause reversible eye damage. Chronic, repeated exposure may cause blood cell damage resulting in low blood cell count. May damage liver and kidneys. Xylene has been investigated for reproductive toxicity and may cause teratogenic effects.

Ethylbenzene has acute oral (rat) and dermal (rabbit) LD₅₀ values of 3500 mg/kg and 15400 mg/kg respectively. The 4-hour inhalation LC₅₀ in rats is 4000 ppm. It is a mild eye (rated 2 on a scale of 10) and a mild skin (rated 4 on a scale of 10) irritant. Prolonged exposure to the vapor of ethylbenzene may cause irritation of the eyes and upper respiratory tract, vertigo, motor ataxia, unconsciousness, and hematological disorders and hepatobiliary complaints. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Developmental toxicity studies in rats indicate skeletal malformation and reduced foetal weight.

Ethyl hexanoic acid has an oral (rat) and dermal (rat) LD₅₀ value of 2043 mg/kg and > 2000 mg/kg respectively. No mortality was observed after 8 h exposure to saturated 2-EHA vapor. Skin and eye irritation was only very slight in animal studies. The substance exhibited no skin sensitizing potential. Repeated exposure to ethyl hexanoic acid induced transient growth retardation, increased liver weight and hepatocyte hypertrophy. Several types of skeletal malformations were seen in the developing fetus in several species. In addition, ethyl hexanoic acid is a close analogue of valproic acid which is a known human teratogen. Genotoxicity is not expected. Carcinogenicity was not investigated so far.

Phthalic anhydride has acute oral (rat) and a dermal (rabbit) LD₅₀ values of 1530 mg/kg and >10,000 mg/kg, respectively. The acute inhalation (rat) 4-hrs LC₅₀ is > 2.14 mg/L air (above saturation limit). Direct contact with this material may cause severe eye irritation with conjunctivitis and burns; and moderate skin irritation (skin burns may

occur if skin is moist/wet). Inhalation of vapor, fume or dusts may cause eye and respiratory tract irritation/burns, and may cause bronchitis and bloody nasal discharge. Repeated exposures may cause dermal and/or respiratory sensitization. Swallowing can cause severe burns of the mouth, throat and stomach. In a series of NTP genetic toxicology assays, this material was negative for chromosome aberrations, negative for sister chromatid exchanges, positive in the mouse lymphoma assay and negative in the Ames evidence of carcinogenicity in male or female rats and mice. In mice, teratogenic effects of phthalic anhydride occurred at doses near the maternally toxic range.

Acute overexposure to maleic anhydride vapors may cause severe eye, nasal and respiratory irritation. Repeated exposure to the vapor may cause lung disease as well as respiratory or skin sensitization. The oral (rat) and dermal (rabbit) LD50 values are 1090 mg/kg and 2620 mg/kg, respectively. The 1 hour inhalation LC50-value was > 4.35 mg/L in a rat study. Repeated exposure may lead to damage to the respiratory tract or kidneys. Clastogenic effects were seen during an in vitro study (ambiguous results), but the in vivo follow up study didn't confirm these findings. No carcinogen or teratogenic effects are expected.

Toluene has acute oral (rat) and dermal (rabbit) LD50 values of 4,328 mg/kg and 12124 mg/kg, respectively. The acute 4-hour inhalation (rat, female) LC50 value is 5,060 ppm (19.07 mg/L). Toluene is a moderate skin irritant. Inhalation overexposure to toluene vapor can cause headache, fatigue, nausea, and central nervous system depression. Sustained inhalation of high levels of toluene has been shown to cause reversible kidney and liver damage. Subchronic inhalation of toluene vapors have caused permanent hearing loss, decreased learning capabilities and damage to the eyes in laboratory animal tests. Deliberate inhalation of high concentrations of toluene vapor by pregnant women has been shown to adversely affect the fetus. These fetotoxic effects include intrauterine growth retardation and delayed postnatal development. The fetotoxic effects of toluene seen in laboratory animals are similar to those seen in humans. Ingestion of toluene in laboratory animals caused mild gastritis and harmful effects on the respiratory system, kidneys, liver and heart. Ingestion in laboratory animals also caused harmful effects on the central nervous system and death. It has also been reported that subchronic ingestion of toluene caused brain and bladder damage in laboratory animals. Due to synergistic effects, the toxicity of toluene may be enhanced by exposure to n-hexane, benzene, xylene, acetylsalicylic acid and chlorinated hydrocarbons. The literature reports that toluene is an aspiration hazard, that acute oral exposure resulted in reversible visual dysfunction, and that chronic exposure has caused altered immune function in animals. Toluene is a chemical known to the State of California to cause reproductive toxicity.

11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties:

for more information see sections 2-Other hazards and 11-Hazardous ingredient toxicity data in this Safety Data Sheet.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS

Aquatic Chronic Toxicity: Harmful to aquatic life with long lasting effects

The ecological assessment for this material is based on an evaluation of its components.

12.1 TOXICITY

Not available

12.2 PERSISTENCE AND DEGRADABILITY

Not available

12.3 BIOACCUMULATIVE POTENTIAL

Not available

12.4 MOBILITY IN SOIL

Not available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

12.6 ENDOCRINE DISRUPTING PROPERTIES

No Hazardous Ingredients

12.7 OTHER ADVERSE EFFECTS

Not available

HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Xylene (1330-20-7)	LC50 = 2.6 mg/L - Oncorhynchus mykiss (96h) NOEC = 0.714 mg/L - Danio rerio (34d)
Ethylbenzene (100-41-4)	LC50 11.0 - 18.0 mg/L - Oncorhynchus mykiss (96h) LC50 = 4.2 mg/L - Oncorhynchus mykiss (96h) LC50 7.55 - 11 mg/L - Pimephales promelas (96h) LC50 = 32 mg/L - Lepomis macrochirus (96h) LC50 9.1 - 15.6 mg/L - Pimephales promelas (96h) LC50 = 9.6 mg/L - Poecilia reticulata (96h)
2-Ethyl hexanoic Acid (149-57-5)	LC50 > 302 mg/L - Leuciscus idus (48hrs) LC50 = 270 mg/L - Lepomis gibbosus (96hrs) LC50 = 180 mg/L - Oncorhynchus mykiss (96hrs)
Phthalic anhydride (85-44-9)	LC50 = 560 mg/L - Brachydanio rerio - 7d NOEC = 10 mg/L - Oncorhynchus mykiss - 60d
Maleic anhydride (108-31-6)	LC50 = 75 mg/L - Lepomis macrochirus (96hrs) LC50 = 75 mg/L - Oncorhynchus mykiss (96hrs)
Toluene (108-88-3)	LC50 = 5.5 mg/L - Oncorhynchus kisutch (96h) NOEC = 1.4 mg/L - Oncorhynchus kisutch (40d)

Component / CAS No.	Toxicity to Water Flea
Xylene (1330-20-7)	EC50 = 1 mg/L - Daphnia magna (48h) NOEC = 1.17 mg/L - Daphnia magna (21d)
Ethylbenzene (100-41-4)	EC50 1.8 - 2.4 mg/L - Daphnia magna (48h)
2-Ethyl hexanoic Acid (149-57-5)	EC50 = 106 mg/L - Daphnia magna (48hrs) EC50 = 85.4 mg/L - Daphnia magna (48hrs)
Phthalic anhydride (85-44-9)	EC50 > 640 mg/L - Daphnia magna - 48hrs NOEC = 16 mg/L - Daphnia magna - 21d
Maleic anhydride (108-31-6)	EC50 = 42.81 mg/L - Daphnia magna (48hrs) NOEC = 10 mg/L - Daphnia magna (21d)
Toluene (108-88-3)	EC50 = 3.78 mg/L - Ceriodaphnia dubia (48h) NOEC = 0.74 mg/L - Ceriodaphnia dubia(7d)

Component / CAS No.	Toxicity to Algae
Xylene (1330-20-7)	EC50 = 4.7 mg/L - Pseudokirchneriella subcapitata (72h)

	EC10 = 0.44 mg/L - Pseudokirchneriella subcapitata (72hrs)
Ethylbenzene (100-41-4)	EC50 = 4.6 mg/L - Pseudokirchneriella subcapitata (72h) EC50 > 438 mg/L - Pseudokirchneriella subcapitata (96h) EC50 2.6 - 11.3 mg/L - Pseudokirchneriella subcapitata (72h) EC50 1.7 - 7.6 mg/L - Pseudokirchneriella subcapitata (96h)
2-Ethyl hexanoic Acid (149-57-5)	EC50 = 485 mg/L - Desmodesmus subspicatus (72hrs)
Phthalic anhydride (85-44-9)	EC50 > 100 mg/L - Desmodesmus subspicatus - 72hrs
Maleic anhydride (108-31-6)	EC50 = 74.32 mg/L - Pseudokirchneriella subcapitata (72hrs) EC10 = 11.8 mg/L - Pseudokirchneriella subcapitata (72hrs)
Toluene (108-88-3)	EC50 = 134 mg/L - Chlorella vulgaris (3h) - reduced photosynthesis rate NOEC = 10 mg/L - Skeletonema costatum (72h)

Component / CAS No.	Partition coefficient
Xylene (1330-20-7)	3.15
Ethylbenzene (100-41-4)	3.6
2-Ethyl hexanoic Acid (149-57-5)	2.7
Phthalic anhydride (85-44-9)	1.6
Maleic anhydride (108-31-6)	log Kow = -2.16 (corresponding acid)
Toluene (108-88-3)	2.73

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

The company encourages the recycle and reuse of products and packaging, where possible and permitted.

Product disposal

When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed. For disposal within the European Community, waste codes according to Directive 2008/98/EC should be assigned by the user based on the application for which the product was used.

Packaging disposal

Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

Disposal-relevant information

Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

SECTION 14: TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

SUBSECTION 14.1 TO 14.5

ADR/RID/ADN

Dangerous Goods? X
UN Number: UN1866
UN PROPER SHIPPING NAME: RESIN SOLUTION, flammable
Transport Hazard Class: 3
Transport Label Required: Flammable liquid
Packing Group: III
Shipped under Exception: Carriage in accordance with 2.2.3.1.5.1
Tunnel restriction code: D/E
Comments: Not intended for shipment by inland waterways in tank vessels.

IMO

Dangerous Goods? X
UN Number: UN1866
UN PROPER SHIPPING NAME: RESIN SOLUTION, flammable
Transport Hazard Class: 3
Transport Label Required: Flammable liquid
Packing Group: III

ICAO / IATA

Dangerous Goods? X
UN Number: UN1866
UN PROPER SHIPPING NAME: RESIN SOLUTION
Transport Hazard Class: 3
Transport Label Required: Flammable liquid
Packing Group: III

14.6 SPECIAL PRECAUTIONS FOR USER

No information available

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

No information available

SECTION 15: REGULATORY INFORMATION**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Ozone Depleting Substances (Regulation (EC) No 1005/2009): Not applicable

Persistent Organic Pollutants (Regulation (EU) No 2019/1021): Not applicable

Prior Informed Consent (Regulation (EC) No 689/2008): Not applicable

Substances subject to Authorization (Annex XIV of Regulation (EC) No 1907/2006): Not applicable

Substances subject to Restrictions for certain applications(Annex XVII of Regulation(EC)No 1907/2006): Yes
Refer to Annex XVII of REACH for details of the restricted applications.

Xylene (20 - 25 %)

This substance is a flammable restricted for aerosols under item 40.

Ethylbenzene (5 - <10 %)

This substance is a flammable restricted for aerosols under item 40.

2-Ethyl hexanoic Acid (<0.35 %)

This is a toxic to reproduction substance restricted under item 30.

Benzene (< 0.003 %)

This substance is restricted under item 5. This is a carcinogen substance restricted under item 28. This is a mutagen substance restricted under item 29. This substance is a flammable restricted for aerosols under item 40.
This substance is restricted under item 72.

Water Endangering Class (Germany): 2 according to AwSV, 18.04.2017

Inventory Information

If one or more components of this product are not listed on the chemical inventory of interest to you, please contact Product Sustainability & Regulatory Affairs to discuss the options to get it listed or exempted emails: PSRA-Customer-Requests@allnex.com (for Europe and Americas) and Asia.Compliance@allnex.com (for Asia).

European Economic Area (including EU): When purchased and shipped from an Allnex legal entity based in the EEA (EU or Norway), this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.

United Kingdom: When purchased from allnex UK this product is compliant with the UK-REACH Regulation as all its components are either notified, excluded, exempt and/or registered. If the material has been purchased by your legal entity based in GB from an allnex legal entity based in the EEA (EU or Norway) in 2019 or 2020, you can continue to import the material into GB as it is covered by allnex DUIN.

United States (USA): All components of this product are designated as “Active” on the TSCA Inventory or are not required to be listed.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

Australia: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.

New Zealand: This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS and ISHL) inventories or are not required to be listed on the Japanese inventories.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory. When purchased from Allnex Korea or Chemart distributor this product is compliant with the ARECs (the Act on the Registration and Evaluation, etc. of Chemical Substances). All its components are either excluded, exempt, pre-notified and/or registered. When purchased from another allnex entity, please contact PSRA-KREACH@allnex.com to check the possibility to be covered by our Only Representative.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

Taiwan: All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

Turkey: When purchased directly from Allnex by a Turkish legal entity, this product is compliant with the PRE-registration requirements of KKDIK as all its components are either pre-registered, excluded and/or exempt.

15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out.

SECTION 16: OTHER INFORMATION

Reasons for Issue:
Revised Section 2
Revised Section 3
Revised Section 11

Date Prepared: 14-May-2026

Date of last significant revision: 14-May-2026

Classification according to Regulation (EC) No 1272/2008 and amendments

Flammable Liquid Hazard Category 3 - Based on test data or assessment

Toxic To Reproduction Hazard Category 1B - Calculation method (except if stated differently under SDS section 11)

Specific Target Organ Toxicity (STOT) - Single Exposure Hazard Category 3 - Calculation method (except if stated differently under SDS section 11)

Serious Eye Damage / Eye Irritation Hazard Category 2 - Calculation method (except if stated differently under SDS section 11)

Skin Sensitizer Hazard Category 1A - Calculation method (except if stated differently under SDS section 11)

Aquatic Environment Long-term Hazard Category 3 - Calculation method (except if stated differently under SDS section 12)

Component - Hazard Statements

Xylene

H226 - Flammable liquid and vapour.

H312 - Harmful in contact with skin.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H304 - May be fatal if swallowed and enters airways.

H412 - Harmful to aquatic life with long lasting effects.

Ethylbenzene

H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H332 - Harmful if inhaled.

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

H412 - Harmful to aquatic life with long lasting effects.

2-Ethyl hexanoic Acid

H360D - May damage the unborn child.

Phthalic anhydride

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

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

H335 - May cause respiratory irritation.

Maleic anhydride

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

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

H372 - Causes damage to organs through prolonged or repeated exposure.

Toluene

H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

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

H361d - Suspected of damaging the unborn child.

H412 - Harmful to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR Agreement Concerning the International Carriage of Dangerous Goods by Road

AiIC Australian Inventory of Industrial Chemicals

ASTM American Society for Testing and Materials

ATE Acute Toxicity Estimate

BCF Bioconcentration Factor

BP Boiling Point
 CAS Chemical Abstracts Service
 CLP Regulation (EC) No 1272/2008 on the Classification, Labelling and Packaging of Substances and Mixtures
 CMR Carcinogen, Mutagen or Reproductive Toxicant
 CSA Chemical Safety Assessment
 DIN Standard of the German Institute for Standardisation
 DNEL Derived No Effect Level
 DSL Domestic Substances List (Canada)
 EC50 Effective Concentration to 50% of a Test Population
 ECHA European Chemicals Agency
 ECL Existing Chemicals List (Korea)
 EEA European Economic Area
 ENCS Existing and New Chemical Substances (Japan)
 ERC Environmental Release Category
 ES Exposure Scenario
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GLP Good Laboratory Practice
 HSNO Hazardous Substances and New Organisms (NZ)
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 ILV Indicative Limit Values
 LC50 Lethal Concentration to 50% of a Test Population
 LD50 Lethal Dose to 50% of a Test Population
 n.o.s. Not Otherwise Specified
 NFPA National Fire Protection Association
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 OECD Organisation for Economic Co-operation and Development
 OEL Occupational Exposure Limit
 PBT Persistent, Bioaccumulative and Toxic Substances
 PC Product Category
 PE Polyethylene
 PICCS Philippine Inventory of Chemicals and Chemical Substances
 PMT Persistent, Mobile and Toxic Substances
 PNEC Predicted No Effect Concentration
 ppm Parts Per Million
 PROC Process Category
 REACH Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals
 SAPT Self-Accelerating Polymerization Temperature
 SDS Safety Data Sheet
 STEL Short Term Exposure Limit
 STOT Specific Target Organ Toxicity
 SU Sectors of Use
 SVHC Substance of Very High Concern
 TCSI Taiwan chemical substance inventory
 TDS Technical Data Sheet
 TSCA Toxic Substances Control Act (USA)
 TWA Time Weighted Average
 UFI Unique Formula Identifier
 UN United Nations
 vPvB Very Persistent and Very Bioaccumulative Substances
 vPvM Very Persistent and Very Mobile Substances

Uses covered for this mixture under REACH						
Consolidated from the exposure scenarios of the substances present in this mixture						
No.	Short Title	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Risk Management Measures/Operational Conditions (RMM/OC)
1.	Formulation &	SU3 - Industrial		PROC1 PROC2	ERC2	Included in

	(re)packing of substances and mixtures	uses: Uses of substances as such or in preparations at industrial sites		PROC3 PROC4 PROC5 PROC8a PROC8b PROC9 PROC14 PROC15		Section 8 of this SDS
2.	Industrial application of coatings and inks	SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites		PROC1 PROC2 PROC3 PROC4 PROC5 PROC7 PROC8a PROC8b PROC10 PROC13 PROC14 PROC15	ERC4	Available on request*
3.	Professional application of coatings and inks	SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)		PROC1 PROC2 PROC3 PROC4 PROC5 PROC8a PROC8b PROC10 PROC11 PROC13 PROC15 PROC19	ERC8a ERC8d	Available on request*

* Contact ALLNEX (PSRA-customer-requests@allnex.com) for detailed Exposure Scenario information on the substances present in this mixture.

Emergency phone numbers for other regions

Asia Pacific

Australia: 1800 074 234 (toll free) or +61 2 8014 4558 (Carechem 24)
China (PRC): +86 532 8388 9090 (NRCC)
India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)
Indonesia: 007 803 011 0293 (Carechem 24)
Japan: +65 3158 1074 (Carechem 24 - Japanese language response available)
Korea: +82 2 3479 8401 (Carechem 24)
Malaysia: +60 3 6207 4347 (Carechem 24)
New Zealand: 0800 446 881 (toll free) or +64 9 929 1483 (Carechem 24)
Philippines: +63 2 231 2149 (Carechem 24)
Taiwan: +886 2 8793 3212 (Carechem 24)
Vietnam: +84 8 4458 2388 (Carechem 24)
All Others: +65 3158 1074 (Carechem 24)

Latin America

Brazil: +55-800-707-7022 (toll free) or +55-11-98149-0850 (Suatrans 24)
Chile: +56 2 2582 9336 (Carechem 24)
Mexico and all others: +52-555-004-8763 (Carechem 24)

USA

+1-866-928-0789 (toll free) or +1-215-207-0061 (Carechem 24 - Allnex29003-NCEC)

Canada

+1-800-579-7421 (toll free) or +1-215-207-0061 (Carechem 24)

Prepared By: Product Sustainability & Regulatory Affairs Department, <http://www.allnex.com/contact>

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