

# SAFETY DATA SHEET

Perma-Seel Aerosol

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Perma-Seel Aerosol	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	Embalming Sealant	
Uses advised against	No specific uses advised against are identified.	
1.3. Details of the supplier of t	he safety data sheet	
Supplier	The MazWell Group Ltd. Units 11/14-15 Ardglen Industrial Estate, Whitchurch, Hampshire, RG28 7BB, United Kingdom +44 (0)1256-893883 +44 (0)1256-893868 enquiries@themazwellgroup.com	
1.4. Emergency telephone nu	mber	
Emergency telephone	+44 (0)1256 893883 (Mon- Fri 9:00 am - 4:30 pm)	
SECTION 2: Hazards identification		
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2.1. Classification of the subst	ance or mixture	
2.1. Classification of the subst Classification (EC 1272/2008)	ance or mixture	
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Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P260 Do not breathe spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	Xylene, Acetone
Supplementary precautionary statements	<ul> <li>P211 Do not spray on an open flame or other ignition source.</li> <li>P261 Avoid breathing spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P312 Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P314 Get medical advice/ attention if you feel unwell.</li> <li>P321 Specific treatment (see medical advice on this label).</li> <li>P332+P313 If skin irritation occurs: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> </ul>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

Xylene		10 - 30%
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		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		
Butane		10 - 30%
CAS number: 106-97-8	EC number: 203-448-7	REACH registration number: 01-
		2119474691-32-XXXX
Classification		
Press. Gas (Liq.) - H280		

Acetone		10 - 30%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01- 2119471330-49
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
The full text for all hazard st	atements is displayed in Section 16.	
SECTION 4: First aid meas	ures	
4.1. Description of first aid r	neasures	
General information	Get medical attention immediately. Show this	s Safety Data Sheet to the medical personnel.
Inhalation	keep warm and at rest in a position comforta Loosen tight clothing such as collar, tie or be	elt. When breathing is difficult, properly trained ministering oxygen. Place unconscious person on
Ingestion	the affected person feels sick as vomiting ma under the direction of medical personnel. If v that vomit does not enter the lungs. Never gi Move affected person to fresh air and keep v breathing. Place unconscious person on the	ew small glasses of water or milk to drink. Stop if ay be dangerous. Do not induce vomiting unless romiting occurs, the head should be kept low so ive anything by mouth to an unconscious person. warm and at rest in a position comfortable for ir side in the recovery position and ensure airway. Loosen tight clothing such as collar, tie or
Skin contact	Rinse with water.	
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.	
Protection of first aiders		protective equipment during any rescue. Wash before removing it from the affected person, or d personnel to carry out mouth-to-mouth
4.2. Most important sympton	ms and effects, both acute and delayed	
General information	See Section 11 for additional information on described will vary dependent on the concent	health hazards. The severity of the symptoms tration and the length of exposure.
Inhalation	A single exposure may cause the following a airway. Difficulty in breathing. Coughing. Vap and nausea. Central nervous system depres	oours may cause headache, fatigue, dizziness
Ingestion	Due to the physical nature of this product, it i	is unlikely that ingestion will occur.
Skin contact	Redness. Irritating to skin.	
Eye contact	Irritating to eyes.	
4.3. Indication of any immed	diate medical attention and special treatment nee	ded
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting me	pasures	

### 5.1. Extinguishing media

Suitable extinguishing media	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	om the substance or mixture	
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.	
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.	
5.3. Advice for firefighters		
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.	

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Risk of explosion. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly
	remove any clothing that becomes contaminated.

### 6.2. Environmental precautions

**Environmental precautions** Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Approach the spillage from upwind. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### 6.4. Reference to other sections

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

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Avoid exposing aerosol containers to high temperatures or direct sunlight. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes. Avoid inhalation of vapours and spray/mists.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.
Storage class	Chemical 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/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup> Sk

#### Butane

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

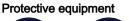
#### Acetone

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup> WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

Acetone (CAS: 67-64-1)

DNEL	Workers - Inhalation; Short term local effects: 2420 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 1210 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 186 mg/kg/day Consumer - Inhalation; Long term systemic effects: 200 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 62 mg/kg/day Consumer - Oral; Long term systemic effects: 62 mg/kg/day
PNEC	<ul> <li>Fresh water; 10.6 mg/l</li> <li>marine water; 1.06 mg/l</li> <li>Intermittent release; 21 mg/l</li> <li>STP; 100 mg/l</li> <li>Sediment (Freshwater); 30.4 mg/kg</li> <li>Sediment (Marinewater); 3.04 mg/kg</li> <li>Soil; 29.5 mg/kg</li> </ul>
	Xylene (CAS: 1330-20-7)
DNEL	Workers - Inhalation; Short term local effects: 289 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 289 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 77 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 180 mg/kg/day Consumer - Inhalation; Short term local effects: 174 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 174 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 14.8 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 108 mg/kg/day Consumer - Oral; Long term systemic effects: 1.6 mg/kg/day
PNEC	<ul> <li>Fresh water; 0.327 mg/l</li> <li>marine water; 0.327 mg/l</li> <li>Intermittent release; 0.327 mg/l</li> <li>STP; 6.58 mg/l</li> <li>Sediment (Freshwater); 12.46 mg/kg</li> <li>Sediment (Marinewater); 12.46 mg/kg</li> <li>Soil; 2.31 mg/kg</li> </ul>

### 8.2. Exposure controls







Appropriate engineering controls	Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
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. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN136.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol. Viscous liquid.
Colour	Clear. Colourless.
Odour	Aromatic hydrocarbons.
Odour threshold	Not available.
рН	Not available.
Melting point	Not available.
Initial boiling point and range	27-32°C

Flash point	<23°C Closed cup.
Evaporation rate	>1 (butyl acetate = 1)
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1% Upper flammable/explosive limit: 11%
Vapour pressure	Not available.
Vapour density	>1
Relative density	1.034
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
9.2. Other information	
Other information	No information required.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidising agents.
10.4. Conditions to avoid	
Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated
10.5. Incompatible materials	
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects
Acute toxicity - oral	
Summary	Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	4,400.0
Acute toxicity - inhalation	
Summary	Based on available data the classification criteria are not met.
Notes (inhalation LC50)	Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l)	44.0
Skin corrosion/irritation Summary	Causes skin irritation.
Animal data	Irritating.
Serious eye damage/irritation	
Summary	Causes serious eye irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitisation	
Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Summary	Based on available data the classification criteria are not met.
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u> Summary	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable
	as to its carcinogenicity to humans.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Suspected of damaging the unborn child.
Specific target organ toxicity -	single exposure
Summary	May cause respiratory irritation.
STOT - single exposure	STOT SE 3 - H336 May cause drowsiness or dizziness.
Target organs	Respiratory system, lungs Central nervous system

Specific target organ toxicity - repeated exposure		
Summary	May cause damage to organs through prolonged or repeated exposure.	
STOT - repeated exposure	STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard		
Summary	Based on available data the classification criteria are not met.	
Aspiration hazard	Based on available data the classification criteria are not met.	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness and nausea. Central nervous system depression.	
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur.	
Skin contact	Redness. Irritating to skin.	
Eye contact	Irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	Respiratory system, lungs Central nervous system	
Toxicological information on	ingradients	

### Toxicological information on ingredients.

Xylene

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,251.0
Species	Mouse
Notes (oral LD₅₀)	REACH dossier information. Based on available data the classification criteria are not met.
ATE oral (mg/kg)	5,251.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.0
Species	Rabbit
Notes (dermal LD₅₀)	REACH dossier information. Harmful in contact with skin.
ATE dermal (mg/kg)	2,000.0
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Harmful if inhaled.
ATE inhalation (vapours mg/l)	11.0
Skin corrosion/irritation	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit Primary dermal irritation index: 3 REACH dossier information. Irritating.

Serious eye damage/irritation		
Serious eye damage/irritation	Dose: 0.1 mL, not rinsed out, Rabbit Causes serious eye irritation. REACH dossier information.	
Respiratory sensitisation		
Respiratory sensitisation	Based on available data the classification criteria are not met.	
Skin sensitisation		
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
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	Two-generation study - NOAEC >500 ppm, Inhalation, Rat P REACH dossier information. Based on available data the classification criteria are not met.	
Reproductive toxicity - development	Developmental toxicity: - NOAEC: >500 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Specific target organ toxici	ty - single exposure	
STOT - single exposure	STOT SE 3 - H335 May cause respiratory irritation.	
Target organs	Respiratory system, lungs	
Specific target organ toxici	ty - repeated exposure	
STOT - repeated exposure	STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.	
Target organs	Central nervous system Liver Kidneys	
Aspiration hazard		
Aspiration hazard	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.	
	Acetone	
Acute toxicity - oral		
Acute toxicity oral (LD₅₀ mg/kg)	5,800.0	
Species	Rat	
ATE oral (mg/kg)	5,800.0	
Acute toxicity - dermal		

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Acute toxicity dermal (LD₅ mg/kg)	7,426.0	
Species	Rabbit	
ATE dermal (mg/kg)	7,426.0	
Acute toxicity - inhalation		
Acute toxicity inhalation (LC₅₀ gases ppmV)	54,000.0	
Acute toxicity inhalation (LC∞ vapours mg/l)	76.0	
Species	Rat	
ATE inhalation (gases ppm)	54,000.0	
ATE inhalation (vapours mg/l)	76.0	
Skin corrosion/irritation		
Human skin model test	Repeated exposure may cause skin dryness or cracking.	
Skin sensitisation		
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Gene mutation: Negative. This substance has no evidence of mutagenic properties.	
Carcinogenicity		
Carcinogenicity	NOEL 0.1 ml, Dermal, Mouse	
Reproductive toxicity		
Reproductive toxicity - development	Maternal toxicity: - NOAEC: 2200 ppm, Inhalation, Rat No evidence of reproductive toxicity in animal studies.	
Specific target organ toxicit	y - single exposure	
STOT - single exposure	Vapours may cause drowsiness and dizziness.	
Target organs	Central nervous system	
Specific target organ toxicity - repeated exposure		
STOT - repeated exposure	NOAEL 20000 ppm, Oral, Mouse Not classified as a specific target organ toxicant after repeated exposure.	
12: Ecological information		
-	rded as dangerous for the environment. However, large or frequent spills may have us effects on the environment.	

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Toxicity	Based on available data the classification criteria are not met.
Acute aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
Chronic aquatic toxicity	

#### Summary

Based on available data the classification criteria are not met.

#### Ecological information on ingredients.

#### Xylene

Toxicity	Based on available data the classification criteria are not met.
Acute aquatic toxicity	
Acute toxicity - fish	$LC_{50}$ , 96 hours: 2.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	IC₅₀, 24 hours: 2.2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 73 hours: 4.36 mg/l, Selenastrum capricornutum
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 56 days: >1.3 mg/l, Oncorhynchus mykiss (Rainbow trout)

#### Acetone

Tevicity	
Toxicity	Aquatic toxicity is unlikely to occur.
Acute aquatic toxicity	
Acute toxicity - fish	LC₅₀, 96 hours: 6210 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC₅₀, 48 hours: 8800 mg/l, Daphnia pulex
Acute toxicity - aquatic plants	NOEC, 8 days: 530 mg/l, Microcystis aeruginosa
Acute toxicity - microorganisms	EC <sub>12</sub> , 30 minutes: 1000 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 1106 - 2212 mg/l, Daphnia magna LOEC, 28 days: 2212 mg/l, Daphnia magna

12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Ecological information on ingredients.

### Xylene

Persistence and degradability	The product is readily biodegradable.
Phototransformation	Water - DT₅₀ : 1.09 days
Biodegradation	Water - Degradation 87.8%: 28 days
	Acetone

Persistence andThe product is readily biodegradable.degradability

Perma-Seel Aerosol		
	Phototransformation	Water - DT₅₀ : 10 days
	Biodegradation	Water - Degradation (90.9%): 28 days
12.3. Bioac	cumulative potential	
Bioaccumu	Bioaccumulative potential No data available on bioaccumulation.	
Partition co	efficient Not av	ailable.
Ecological i	nformation on ingredients.	
		Xylene
	Bioaccumulative potentia	BCF: 25.9, Oncorhynchus mykiss (Rainbow trout)
	Partition coefficient	log Pow: 3.12
		Acetone
	Partition coefficient	log Pow: -0.24
12.4. Mobili	ity in soil	
Mobility		
Ecological i	nformation on ingredients.	
Xylene		
	Mobility	The product is soluble in water.
	Adsorption/desorption coefficient	Water - log Koc: 2.73 @ 20-25°C
	Henry's law constant	623 Pa m³/mol @ 25°C Estimated value.
	Surface tension	28.75 mN/m @ 25°C
		Acetone
	Mobility	The product is soluble in water.
	Henry's law constant	2.929 Pa m³/mol @ 25°C
	Surface tension	23700 mN/m @ 20°C
12.5. Results of PBT and vPvB assessment		
<b>Results of PBT and vPvB</b> This product does not contain any substances classified as PBT or vPvB. <b>assessment</b>		
Ecological i	nformation on ingredients.	
		Xylene
	Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.

### Acetone

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

### 12.6. Other adverse effects

Other adverse effects None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

### **SECTION 14: Transport information**

General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.	
14.1. UN number		
UN No. (ADR/RID)	1950	
UN No. (IMDG)	1950	
UN No. (ICAO)	1950	
UN No. (ADN)	1950	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	AEROSOLS	
Proper shipping name (IMDG)	AEROSOLS	
Proper shipping name (ICAO)	AEROSOLS	
Proper shipping name (ADN)	AEROSOLS	
14.3. Transport hazard class(es)		
ADR/RID class	2.1	
ADR/RID classification code	5F	
ADR/RID label	2.1	
IMDG class	2.1	
ICAO class/division	2.1	
ADN class	2.1	

#### Transport labels



### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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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 e	nvironmental regulations/legislation specific for the substance or mixture
National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
EU legislation	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18</li> <li>December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</li> <li>Commission Regulation (EU) No 2015/830 of 28 May 2015.</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> <li>December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</li> <li>Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).</li> </ul>

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# Inventories

# US - TSCA

The following ingredients are listed or exempt:

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

# SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	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.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
	IATA: International Air Transport Association.
	ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
	IMDG: International Maritime Dangerous Goods.
	CAS: Chemical Abstracts Service.
	ATE: Acute Toxicity Estimate.
	$LC_{50}$ : Lethal Concentration to 50 % of a test population.
	LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose).
	EC₅₀: 50% of maximal Effective Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Aerosol = Aerosol
	Eye Irrit. = Eye irritation
	Skin Irrit. = Skin irritation
	STOT RE = Specific target organ toxicity-repeated exposure
	STOT SE = Specific target organ toxicity-single exposure
Classification procedures according to Regulation (EC) 1272/2008	STOT RE 2 - H373: STOT SE 3 - H335: STOT SE 3 - H335, H336: Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: : Calculation method. Aerosol 1 - H222, H229: : Expert judgement.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision comments	Revised regulations.
Revision date	11/12/2020
Revision	25
Supersedes date	13/09/2016
SDS number	4001
Hazard statements in full	H220 Extremely flammable gas.
	H222 Extremely flammable aerosol.
	H225 Highly flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H229 Pressurised container: may burst if heated.
	H280 Contains gas under pressure; may explode if heated.
	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.
	H373 May cause damage to organs (Central nervous system, Liver, Kidneys) through
	prolonged or repeated exposure
	prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure.

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.