

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 and The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720

Issuing Date 24-Jul-2023

Revision Date 24-Jul-2023

Revision Number 1

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

### 1.1. Product identifier

Product Code(s)	VP-1

Product Name VP-1

Synonyms VP-1 PATCH KIT

Pure substance/mixture Mixture

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

Recommended use Patching butyl rubber bicycle inner tubes

Uses advised against None known

### 1.3. Details of the supplier of the safety data sheet

Supplier
Park Tool Company
5115 Hadley Avenue N
St Paul, MN 55128
+1 651-777-6868

# For further information, please contact E-mail address customercare@madison.co.uk

### 1.4. Emergency telephone number

**Emergency telephone** 

CHEMTREC UK +(44)-870-8200418

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Flammable liquids	Category 2 - (H225)
Skin corrosion/irritation	Category 2 - (H315)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Aspiration hazard	Category 1 - (H304)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

### 2.2. Label elements

Contains Solvent naphtha (petroleum), light aliphatic, n-Heptane, Octane



Signal word Danger

### Hazard statements

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H225 - Highly flammable liquid and vapour.

H410 - Very toxic 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.
P273 - Avoid release to the environment.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 - Do NOT induce vomiting.
P370 + P378 - In case of fire: Use foam, alcohol-resistant foam, gaseous extinguishing agents, carbon dioxide (CO2), dry powder or ABC powder to extinguish.
P391 - Collect spillage.

### Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

### 2.3. Other hazards

May be harmful in contact with skin.

### SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Solvent naphtha (petroleum), light aliphatic 64742-89-8	60-100	(649-267-00-0) 265-192-2	-	Muta. 1B (H340) (*P) Carc. 1B (H350) (*P) Asp. Tox. 1 (H304)	-	-	-
n-Heptane 142-82-5	10-30	(601-008-00-2) 205-563-8	-	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) STOT SE 3	-	-	-

[	1			(1.10.0.0)	1	1	1
				(H336)			
				Asp. Tox. 1			
				(H304)			
				Aquatic Acute			
				1 (H400)			
				Aquatic			
				Chronic 1			
				(H410)			
Octane	7-13	(601-009-00-8)	-	Flam. Liq. 2	-	-	-
111-65-9		203-892-1		(H225)			
				Skin Irrit. 2			
				(H315)			
				STOT SE 3			
				(H336)			
				Asp. Tox. 1			
				(H304)			
				Aquatic Acute			
				1 (H400)			
				Aquatic			
				Chronic 1			
				(H410)			

### Full text of H- and EUH-phrases: see section 16

### Additional information

Note P (\*P): The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 % w/w benzene (EINECS No 200-753-7). This note applies only to certain complex coal- and oil-derived substances in Part 3

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

# SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Effects of Exposure	No information available.
4.3. Indication of any immediate me	dical attention and special treatment needed
Note to doctors	Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

precautions for fire-fighters

Suitable Extinguishing Media	Carbon dioxide (CO2). Alcohol resistant foam. Gaseous extinguishing agents. Dry powder. ABC-powder. Foam.
Unsuitable extinguishing media	Water spray. High volume water jet.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	May emit toxic fumes under fire conditions. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Hazardous combustion products	Carbon monoxide, Carbon dioxide (CO2).
5.3. Advice for firefighters	
Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

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

Personal precautions	Deny entry to unauthorized and unprotected personnel. Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Avoid release to the environment. Do not allow material to contaminate ground water system.

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

Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Use non-sparking tools. Dispose of contaminated material as waste according to Section 13.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials. Store away from incompatible materials. See section 10 for more information.
7.3. Specific end use(s)	
Specific use(s)	The identified uses for this product are detailed in Section 1.2.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### **Exposure Limits**

Chemical name	United Kingdom
n-Heptane	TWA: 500 ppm

142-82-5	TWA: 2085 mg/m <sup>3</sup>
	STEL: 1500 ppm
	STEL: 6255 mg/m <sup>3</sup>

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Solvent naphtha (petroleum), light			1.9 mg/m³ [4] [6]
aliphatic			1286.4 mg/m <sup>3</sup> [4] [7]
64742-89-8			837.5 mg/m <sup>3</sup> [5] [6]
			1066.67 mg/m <sup>3</sup> [5] [7]
n-Heptane		300 mg/kg bw/day [4] [6]	2085 mg/m <sup>3</sup> [4] [6]
142-82-5			
Octane		773 mg/kg bw/day [4] [6]	2035 mg/m <sup>3</sup> [4] [6]
111-65-9			

Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Solvent naphtha (petroleum), light			0.41 mg/m <sup>3</sup> [4] [6]
aliphatic			1152 mg/m³ [4] [7]
64742-89-8			178.57 mg/m³ [5] [6]
			640 mg/m³ [5] [7]
n-Heptane	149 mg/kg bw/day [4] [6]		447 mg/m³ [4] [6]
142-82-5			-
Octane	699 mg/kg bw/day [4] [6]		608 mg/m³ [4] [6]
111-65-9			-

### Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

### Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Octane 111-65-9	10 µg/L	40 µg/L	10 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
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Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Octane 111-65-9	4 mg/kg sediment dw	4 mg/kg sediment dw	160 µg/L	1.6 mg/kg soil dw	

### 8.2. Exposure controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment Eye/face protection	Tight sealing safety goggles. Eye protection must conform to standard EN 166.
Hand protection	Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.
Environmental exposure controls	Avoid release to the environment. Do not allow material to contaminate ground water system.

# **SECTION 9: Physical and chemical properties**

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

Appearance Physical state Colour Odour Odour threshold	Liquid Amber Solvent-like No information available	
Property	Values	Remarks • Method
Melting point / freezing point		No data available
Initial boiling point and boiling rang	e90 °C	
Flammability		No data available
Flammability Limit in Air		NI 17 111
Upper flammability or explosive limits		No data available
Lower flammability or explosive		No data available
limits		NU Uala available
Flash point	-9 °C	
Autoignition temperature		No data available
Decomposition temperature		No data available
рН		No data available
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available

Dynamic viscosity Water solubility	Immiscible in water	No data available
Solubility(ies)		No data available
Partition coefficient Vapour pressure		No data available No data available
Relative density		No data available
Bulk density		No data available
Liquid Density		No data available
Relative vapour density		No data available
Particle characteristics Particle Size		No data available
Particle Size Distribution		No data available
Explosive properties	No information available.	
Oxidising properties	No information available.	
9.2. Other information		
VOC	No information available	

# SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	t None. Yes.
10.3. Possibility of hazardous reacti	ons
Possibility of hazardous reactions	Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Hazardous polymerisation	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	
Conditions to avoid	Heat, flames and sparks. Incompatible materials.
10.5. Incompatible materials	
Incompatible materials	Oxidizing agents.
10.6. Hazardous decomposition pro	ducts
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapours. Carbon

Hazardous decomposition products Thermal decomposition can lead to release of irritating gases and vapours, Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons.

# **SECTION 11: Toxicological information**

11.1. Toxicological information

Information on likely routes of exposure

#### Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness. May be harmful if inhaled. Eye contact Specific test data for the substance or mixture is not available. May cause irritation. Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Potential for aspiration if Ingestion swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Symptoms related to the physical, chemical and toxicological characteristics Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness Symptoms and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Acute toxicity . Numerical measures of toxicity The following values are calculated based on chapter 3.1 of the GHS document > 2,000 mg/kg ATEmix (dermal) > 5,000 mg/kg (rat) Oral LD50 Inhalation LC50 103 ma/l **Component Information** Dermal LD50 Chemical name Oral LD50 Inhalation LC50 = 3000 mg/kg (Rabbit) Solvent naphtha (petroleum), light aliphatic n-Heptane = 3000 mg/kg(Rabbit) > 73.5 mg/L (Rat)4 h Octane > 24.88 mg/L (Rat)4 h Delayed and immediate effects as well as chronic effects from short and long-term exposure Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation. Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity NOTE: As per Nota P, the mutagen classification does NOT apply to this preparation because the producer declares that substance contains less than 0.1% w/w benzene. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic. United Kingdom Chemical name Solvent naphtha (petroleum), light aliphatic Muta. 1B

# Carcinogenicity

NOTE: As per Nota P, the carcinogen classification does NOT apply to this preparation

**Product Information** 

because the producer declares that the substance contains less than 0.1% w/w benzene.

Chemical name		United Kingdom	
Solvent naphtha (petroleum), light aliphatic		Carc. 1B	
Reproductive toxicity	Based on available data, the classification criteria are not met.		
STOT - single exposure	May cause drowsiness or dizziness.		
STOT - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
Other adverse effects	No information available.		

The table below indicates whether each agency has listed any ingredient as a carcinogen.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Solvent naphtha	EC50: =4700mg/L (72h,	-	-	-
(petroleum), light aliphatic	Pseudokirchneriella subcapitata)			
n-Heptane	-	LC50: =375.0mg/L (96h, Cichlid fish)	-	-
Octane	-	-	-	EC50: =0.38mg/L (48h, water flea)

### 12.2. Persistence and degradability

Persistence and degradability Partly biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulation** 

Not expected to bioaccumulate.

### Component Information

Chemical name	Partition coefficient
n-Heptane	4.66
Octane	5.18

### 12.4. Mobility in soil

Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment	
Solvent naphtha (petroleum), light aliphatic	The substance is not PBT / vPvB	

n-Heptane	The substance is not PBT / vPvB
Octane	The substance is not PBT / vPvB

### 12.6. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products	Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

# **SECTION 14: Transport information**

IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special Precautions for UsersSpecial ProvisionsEmS-No.14.7Maritime transport in bulkaccording to IMO instruments	UN1133 ADHESIVES (n-Heptane), Marine pollutant 3 II UN1133, ADHESIVES (n-Heptane), 3, II, (-9°C C.C.), Marine pollutant Yes None F-E, S-D No information available
RID14.1UN number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special Precautions for UsersSpecial ProvisionsClassification code	UN1133 ADHESIVES, Environmentally Hazardous 3 II UN1133, ADHESIVES, 3, II, Environmentally Hazardous Yes None F1
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special Precautions for Users Special Provisions Classification code Tunnel restriction code IATA 14.1 UN number or ID number	1133 ADHESIVES, Environmentally Hazardous 3 II 1133, ADHESIVES, 3, II, Environmentally Hazardous Yes 640C F1 (D/E) UN1133

14.2	UN proper shipping name	Adhesives	
14.3	Transport hazard class(es)	3	
14.4	Packing group	II	
D	escription	UN1133, Adh	nesives, 3, II
14.5	Environmental hazards	Yes	
14.6	<b>Special Precautions for Users</b>		
S	pecial Provisions	A3	
Ν	ote:	None	

## **SECTION 15: Regulatory information**

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

National regulations

### Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Solvent naphtha (petroleum), light aliphatic -	Use restricted. See item 28.	-
64742-89-8	Use restricted. See item 29.	
	Restricted Carcinogen 1B	
	Restricted Mutagen 1B	

### **Persistent Organic Pollutants**

Not applicable

### **Export Notification requirements**

Not applicable

### Dangerous substance category per COMAH Regulations 2015 (as amended)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1 P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

### Named dangerous substances per COMAH Regulations 2015 (as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Solvent naphtha (petroleum), light aliphatic -	-	25000
64742-89-8		

# The Ozone-Depleting Substances Regulations 2015

Not applicable

### The Biocidal Products Regulations 2001 (as amended)

Not applicable

### The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended) Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended) Not applicable

### International Inventories

Contact supplier for inventory compliance status

### 15.2. Chemical safety assessment

**Chemical Safety Report** 

No information available

### **SECTION 16: Other information**

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

### Full text of H-Statements referred to under section 3

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

H340 - May cause genetic defects

H350 - May cause cancer

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend	Section 8: Exposure controls/personal protection	on	
TŴĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers	SCBA	Self-contained breathing apparatus

Classification procedure			
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used		
Acute dermal toxicity	Calculation method		
Acute inhalation toxicity - gas	Calculation method		
Acute inhalation toxicity - vapour	Calculation method		
Skin corrosion/irritation	Calculation method		
Serious eye damage/eye irritation	Calculation method		
Respiratory sensitisation	Calculation method		
Skin sensitisation	Calculation method		
Mutagenicity	Calculation method		
Carcinogenicity	Calculation method		
Reproductive toxicity	Calculation method		
STOT - single exposure	Calculation method		
STOT - repeated exposure	Calculation method		
Acute aquatic toxicity	Calculation method		
Chronic aquatic toxicity	Calculation method		
Aspiration hazard	Calculation method		
Ozone	Calculation method		

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) European Chemicals Agency (ECHA) (ECHA\_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

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Revision Note	Initial Release

### This material safety data sheet complies with the requirements of UK REACH

# Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text

### End of Safety Data Sheet