

Revision date 11/10/2023

Revision Number 3

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

1.1. Product identifier

Product Code(s) 3517

Product Name 3517 - Screen Print Essentials Limited - Screen Opener Spray 500ml Aerosols

Pure substance/mixture Mixture

Contains Hydrocarbons, C9, aromatics; 4-hydroxy-4-methylpentan-2-one; Cyclohexanone; 1-methoxy-2-propanol

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

Recommended use Cleaning agent

1.3. Details of the supplier of the safety data sheet

Manufacturer

Screen Print Essentials Limited
20 Rowes Yard
Manston Business Park
Kent
CT12 5FA
Tel: 03300 553640
info@spe-online.co.uk

For further information, please contact;

Emergency Telephone Tel: 03300 553640 (Hours 08:00 - 17:00 Mon to Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity — single exposure	Category 3 - (H335, H336)
Category 3 Respiratory irritation, Narcotic effects	
Chronic aquatic toxicity	Category 2 - (H411)
Aerosols	Category 1 - (H222, H229)

2.2. Label elements

Contains Hydrocarbons, C9, aromatics; 4-hydroxy-4-methylpentan-2-one; Cyclohexanone; 1-methoxy-2-propanol



Signal word

Danger

Hazard statements

H318 - Causes serious eye damage
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H361d - Suspected of damaging the unborn child
 H411 - Toxic to aquatic life with long lasting effects
 H222 - Extremely flammable aerosol
 H229 - Pressurised container: May burst if heated
 For professional users only

Precautionary statements

P102 - Keep out of reach of children
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P211 - Do not spray on an open flame or other ignition source
 P251 - Do not pierce or burn, even after use
 P261 - Avoid breathing vapours/spray
 P271 - Use only outdoors or in a well-ventilated area
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER or doctor
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Additional information

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

2.3. Other hazards

Causes mild skin irritation.

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)
Hydrocarbons, C9, aromatics 64742-95-6	30-60%	(649-356-00-4) 265-199-0	-	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335 & H336)	-	-	-

				Aquatic Chronic 2 (H411)			
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE 68476-85-7	30-60%	() 270-704-2	-	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-
Cyclohexanone 108-94-1	5-10%	(606-010-00 -7) 203-631-1	-	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335)	-	-	-
4-hydroxy-4-methylpentan-2-one 123-42-2	5-10%	(603-016-00 -1) 204-626-7	-	Eye Irrit. 2 (H319) STOT SE 3 (H335) Repr. 2 (H361d)	Eye Irrit. 2 :: C>=10%	-	-
1-methoxy-2-propanol 107-98-2	5-10%	(603-064-00 -3) 203-539-1	-	Flam. Liq. 3 (H226) STOT SE 3 (H336)	-	-	-

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

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (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. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get 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. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms	Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing. Difficulty in breathing.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical 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. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters 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 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). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid breathing vapours or mists.

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.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. 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. Flood with water to complete polymerization and scrape off floor.

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.

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. 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. Remove contaminated clothing and shoes. 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from sunlight. 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 in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

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
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE 68476-85-7	TWA: 1000 ppm TWA: 1750 mg/m ³ STEL: 1250 ppm STEL: 2180 mg/m ³
Cyclohexanone 108-94-1	TWA: 10 ppm TWA: 41 mg/m ³ STEL: 20 ppm STEL: 82 mg/m ³ Sk*

4-hydroxy-4-methylpentan-2-one 123-42-2	TWA: 50 ppm TWA: 241 mg/m ³ STEL: 75 ppm STEL: 362 mg/m ³
1-methoxy-2-propanol 107-98-2	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Sk*

Biological occupational exposure limits

Chemical name	United Kingdom
Cyclohexanone 108-94-1	2 mmol/mol creatinine - urine (Cyclohexanol) - post shift

Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
Hydrocarbons, C9, aromatics 64742-95-6			1286.4 mg/m ³ [4] [7] 837.5 mg/m ³ [5] [6] 1066.67 mg/m ³ [5] [7]
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE 68476-85-7		23.4 mg/kg bw/day [4] [6]	
Cyclohexanone 108-94-1		4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]	40 mg/m ³ [4] [6] 80 mg/m ³ [4] [7] 40 mg/m ³ [5] [6] 80 mg/m ³ [5] [7]
4-hydroxy-4-methylpentan-2-one 123-42-2		467 mg/kg bw/day [4] [6]	32.6 mg/m ³ [4] [6] 240 mg/m ³ [5] [7]
1-methoxy-2-propanol 107-98-2		183 mg/kg bw/day [4] [6]	369 mg/m ³ [4] [6] 553.5 mg/m ³ [4] [7] 553.5 mg/m ³ [5] [7]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
Hydrocarbons, C9, aromatics 64742-95-6			1152 mg/m ³ [4] [7] 178.57 mg/m ³ [5] [6] 640 mg/m ³ [5] [7]
Cyclohexanone 108-94-1	1.5 mg/kg bw/day [4] [6] 1.5 mg/kg bw/day [4] [7]	1 mg/kg bw/day [4] [6] 1 mg/kg bw/day [4] [7]	10 mg/m ³ [4] [6] 20 mg/m ³ [4] [7] 20 mg/m ³ [5] [6] 40 mg/m ³ [5] [7]
4-hydroxy-4-methylpentan-2-one 123-42-2	1.67 mg/kg bw/day [4] [6]		5.8 mg/m ³ [4] [6]
1-methoxy-2-propanol 107-98-2	33 mg/kg bw/day [4] [6]		43.9 mg/m ³ [4] [6]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Cyclohexanone 108-94-1	0.0329 mg/L	0.329 mg/L	0.00329 mg/L		
4-hydroxy-4-methylpentan- 2-one 123-42-2	2 mg/L	1 mg/L	0.2 mg/L		
1-methoxy-2-propanol 107-98-2	10 mg/L	100 mg/L	1 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Cyclohexanone 108-94-1	0.249 mg/kg sediment dw	0.0249 mg/kg sediment dw	10 mg/L	0.0304 mg/kg soil dw	
4-hydroxy-4-methylpentan- 2-one 123-42-2	7.4 mg/kg sediment dw	0.74 mg/kg sediment dw	10 mg/L	0.31 mg/kg soil dw	
1-methoxy-2-propanol 107-98-2	52.3 mg/kg sediment dw	5.2 mg/kg sediment dw	100 mg/L	4.59 mg/kg soil dw	

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles. Safety glasses with side shields are recommended for medical or industrial exposures.

Hand protection

Impervious gloves. Wear suitable gloves.

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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Colour	clear

Odour Solvent.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	-41 174	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	0.8	
Lower flammability or explosive limits	13.1	
Flash point	<-40	None known
Autoignition temperature	270	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	0.744	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

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 None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing.

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	5,179.50 mg/kg
ATEmix (dermal)	2,125.60 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	2.72 mg/l
ATEmix (inhalation-vapour)	34.10 mg/l

Unknown acute toxicity

86.01651 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrocarbons, C9, aromatics	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Cyclohexanone	= 1544 mg/kg (Rat)	= 947 mg/kg (Rabbit)	> 6.2 mg/L (Rat) 4 h
4-hydroxy-4-methylpentan-2-one	> 4 g/kg (Rat)	= 13630 mg/kg (Rabbit)	> 7.23 g/m ³ (Rat) 8 h
1-methoxy-2-propanol	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation. Classification based on data available for ingredients. Causes mild skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.
STOT - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrocarbons, C9, aromatics	-	LC50: =9.22mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: =6.14mg/L (48h, <i>Daphnia magna</i>)
Cyclohexanone	-	LC50: 481 - 578mg/L (96h, <i>Pimephales promelas</i>) LC50: =8.9mg/L (96h, <i>Pimephales promelas</i>)	-	-
4-hydroxy-4-methylpentan-2-one	-	LC50: =420mg/L (96h, <i>Lepomis macrochirus</i>)	-	-
1-methoxy-2-propanol	-	LC50: =20.8g/L (96h, <i>Pimephales promelas</i>)	-	EC50: =23300mg/L (48h, <i>Daphnia magna</i>)

12.2. Persistence and degradability**Persistence and degradability** No information available.**12.3. Bioaccumulative potential****Bioaccumulation****Component Information**

Chemical name	Partition coefficient
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE	<=2.8
Cyclohexanone	0.86
4-hydroxy-4-methylpentan-2-one	1.03
1-methoxy-2-propanol	<1

12.4. Mobility in soil**Mobility in soil** No information available.**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Hydrocarbons, C9, aromatics	The substance is not PBT / vPvB
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE	The substance is not PBT / vPvB
Cyclohexanone	The substance is not PBT / vPvB
4-hydroxy-4-methylpentan-2-one	The substance is not PBT / vPvB
1-methoxy-2-propanol	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues/unused products** 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.**SECTION 14: Transport information****IATA**

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	Aerosols, flammable
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols, flammable, 2.1
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A145, A167, A802
ERG Code	10L

IMDG

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	Aerosols
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols (Hydrocarbons, C9, aromatics), 2.1, Marine pollutant
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	63,190, 277, 327, 344, 381, 959
EmS-No.	F-D, S-U
14.7 Maritime transport in bulk according to IMO instruments	

RID

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	Aerosols
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols, 2.1
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	190, 327, 344, 625
Classification code	5F

ADR

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	Aerosols
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
Description	UN1950, Aerosols, 2.1
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	327, 625, 344, 190
Classification code	5F
Tunnel restriction code	(E)

SECTION 15: Regulatory information

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

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH (SI 2015/483 as amended)

P3a - FLAMMABLE AEROSOLS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

P3b - FLAMMABLE AEROSOLS

Named dangerous substances per COMAH (SI 2015/483 as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Hydrocarbons, C9, aromatics - 64742-95-6	-	25000
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE - 68476-85-7	50	200

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

TSCA	See inventories below
DSL/NDL	See inventories below
EINECS/ELINCS	See inventories below
ENCS	See inventories below
IECSC	See inventories below
KECL	See inventories below
PICCS	See inventories below
AIIC	See inventories below
NZIoC	See inventories below

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AIIC** - Australian Inventory of Industrial Chemicals
- NZIoC** - New Zealand Inventory of Chemicals

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

- H226 - Flammable liquid and vapour
- H304 - May be fatal if swallowed and enters airways

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA Ceiling +	TWA (time-weighted average) Maximum limit value Sensitisers	STEL *	STEL (Short Term Exposure Limit) Skin designation
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Classification procedure

	Method Used
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Calculation method
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	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
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
Flammable aerosol	On basis of test data

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

Revision date 11/10/2023

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

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

UK SDS version information - XGHS

UL release:
GHS Revision 7
2022 Q1

United Kingdom

Full process, including GHS and Transportation Wizards

Specific target organ toxicity — single exposure	Category 3
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Category 3 Target organ effects: Respiratory irritation, Narcotic effects.

Full text of H-Statements referred to under H226 - Flammable liquid and vapour H304 - May be fatal if swallowed and enters airways section 3

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
Hydrocarbons, C9, aromatics	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335 & H336) Aquatic Chronic 2 (H411)	
PETROLEUM GASES, LIQUEFIED <0.1% 1,3-BUTADIENE	Flam. Gas 1 (H220) Press. Gas (H280)	
Cyclohexanone	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335)	
4-hydroxy-4-methylpentan-2-one	Eye Irrit. 2 (H319) STOT SE 3 (H335) Repr. 2 (H361d)	Eye Irrit. 2 :: C>=10%
1-methoxy-2-propanol	Flam. Liq. 3 (H226) STOT SE 3 (H336)	