

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 06-Aug-2019

Revision date 09-Sep-2024

Revision Number 4

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

1.1. Product identifier

Product Code(s)	23150
Safety data sheet number	23150
Product Name	HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS
EC Number	927-510-4
CAS No	64742-49-0
Synonyms	HEPTANE SHELL, PETROSOL D HEPTANE, SBP 94/99, HEPTANE TRBG, EVERSOL N-PARAFFIN 7, Heptane, SOLANE 80-110, ESSENCE 80-110, HEPTANE SHL, HEPTANE BE, FLUSH PETROLIUM, HEPTANE FR, HEPTANE NO, HEPTANE CPA
Pure substance/mixture	Substance
Contains HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS	
Molecular weight	98

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

Recommended use	Solvent Fuel additive Polymers Rubber products Laboratory chemicals Mining chemicals Additive for Agrochemicals Lubricant Detergent Cleaning agent Chemical intermediate For further information, see attached Exposure Scenario
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1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

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)
Aspiration hazard	Category 1 - (H304)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS



Signal word
Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects
H225 - Highly flammable liquid and vapour

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 dry chemical, CO2, water spray or alcohol-resistant foam to extinguish
P403 + P235 - Store in a well-ventilated place. Keep cool

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

Product is a static accumulator. Vapours can form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

SECTION 3: Composition/information on ingredients

3.1 Substances

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 C7, N-ALKANES, ISOALKANES, CYCLICS 64742-49-0	90 - 100%	927-510-4	-	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-
HEPTANE 142-82-5	< 40%	205-563-8 (601-008-00-2)	-	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1

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. 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. Get medical attention if irritation develops and persists.
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.

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

Symptoms	May cause drowsiness or dizziness. Risk of chemical pneumonia after aspiration.
Inhalation	Difficulty in breathing. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Dermal	Causes skin irritation.
Ingestion	May be fatal if swallowed and enters airways May result in aspiration into the lungs, causing chemical pneumonia. Risk of lung oedema.

4.3. Indication of any immediate medical 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. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

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. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	Carbon oxides.

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. Cool containers with flooding quantities of water until well after fire is out. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. 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.
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Do not touch or walk through spilled material. Avoid contact with skin, eyes and inhalation of vapours. Wear protective gloves/clothing and eye/face protection. In case of inadequate ventilation wear respiratory protection. Use non sparking handtools and explosion-proof electric equipment.

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. 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.

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 spark-proof tools and explosion-proof equipment.

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 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 inhalation, ingestion and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Product is a static accumulator. Take precautionary measures against static discharge. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

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. Ensure that eyewash stations and safety showers are close to the workstation location. Take off all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including 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. Keep away from food, drink and animal feedingstuffs. Bund storage facilities to prevent soil and water pollution in the event of spillage. Protect from direct sunlight. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Avoid contact with: Oxidising agents. Unsuitable container/equipment material. Natural rubber. Butyl rubber.

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

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

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

Chemical name	United Kingdom
HEPTANE 142-82-5	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³

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
HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS 64742-49-0		300 mg/kg bw/day [4] [6]	2085 mg/m ³ [4] [6]
HEPTANE 142-82-5		300 mg/kg bw/day [4] [6]	2085 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS 64742-49-0	149 mg/kg bw/day [4] [6]	149 mg/kg bw/day [4] [6]	477 mg/m ³ [4] [6]
HEPTANE 142-82-5	149 mg/kg bw/day [4] [6]		447 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation. Local and General Ventilation. Use explosion-proof ventilating equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Use eye protection according to EN 166.

Hand protection Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Nitrile rubber	> 0.55 mm	480

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. Clothing should include anti-static overalls, boots and gloves if there is a risk of ignition from static electricity.

Respiratory protection In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). EN 136/140/141/145/143/149.

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. Ensure that eyewash stations and safety showers are close to the workstation location. Take off all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour Colourless
Odour Petroleum.
Odour threshold No information available

Property	Values
Melting point / freezing point	
Initial boiling point and boiling range	90 - 110 °C
Flammability	
Flammability Limit in Air	
Upper flammability or explosive limits	8%

Remarks • Method
No information available.
No information available.
No information available.
No information available.

Lower flammability or explosive limits	0.8%	
Flash point	> -16 - < 0 °C	No information available.
Autoignition temperature	> 200 °C	No information available.
Decomposition temperature		No information available.
pH		Not applicable.
pH (as aqueous solution)		No information available.
Kinematic viscosity	0.5 - 1.5 mm ² /s	No information available.
Dynamic viscosity		No information available.
Water solubility	Immiscible with water	No information available.
Solubility(ies)		No information available.
Partition coefficient	~ 4	No information available.
Vapour pressure	6 - 7 kPa	No information available.
Relative density	0.69 - 0.73	No information available.
Bulk density	680 kg/m ³	No information available.
Liquid Density	No information available	No information available.
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising	

9.2. Other information

Molecular weight 98

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 Product is a static accumulator.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Protect from direct sunlight.

10.5. Incompatible materials

Incompatible materials 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	Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. May cause drowsiness or dizziness.
Eye contact	May cause temporary eye irritation.
Skin contact	Causes skin irritation.
Ingestion	Potential for aspiration if 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

Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May cause drowsiness or dizziness. Risk of chemical pneumonia after aspiration.
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Acute toxicity**Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS	> 5840 mg/kg (Rat) >5000 mg/kg (Rat)	> 2920 mg/kg (Rat) >2000 mg/kg (Rat)	> 23.3 mg/l (Rat) 4 h >5.61 mg/l (Rat) 4h
HEPTANE	> 5000 mg/kg	> 2000 mg/kg (Rabbit)	> 29.3 mg/L (Rat) 4 h

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

Skin corrosion/irritation	Causes skin irritation.
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HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Irritant

HEPTANE (142-82-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation May cause burning sensation May cause itching. Dryness and/or cracking May stain skin.

Serious eye damage/eye irritation	May cause temporary eye irritation.
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HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			non-irritant
	Rabbit				Mild eye irritation

HEPTANE (142-82-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause temporary eye irritation

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

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Negative

HEPTANE (142-82-5)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity Based on available data the classification criteria are not met.

Component Information

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Results
	in vitro	Not mutagenic

HEPTANE (142-82-5)

Method	Species	Results
	in vitro	Negative

Carcinogenicity No information available.

Reproductive toxicity Based on available data the classification criteria are not met.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Results
	Rat	Negative

HEPTANE (142-82-5)

Method	Species	Results
		This product does not contain any known or suspected reproductive hazards

STOT - single exposure May cause drowsiness or dizziness.

HEPTANE (142-82-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
		Inhalation			May cause drowsiness or dizziness

STOT - repeated exposure No information available.

Component Information

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	human data and animal	Inhalation			May cause drowsiness or dizziness
	human data	Inhalation			May cause drowsiness or dizziness
		Inhalation			May cause drowsiness or dizziness

Aspiration hazard May be fatal if swallowed and enters airways.

Other adverse effects No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Ecotoxicity Toxic to aquatic life with long lasting effects.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Green Algae	EL50	29 mg/L	72 hours	
	Fish	LC50	0.561 mg/L	96 hours	
	Water flea	EC50	0.4 mg/L	48 hours	
	Green Algae	EL50	29 mg/L	72 hours	
	Water flea	EL50	3 mg/L	48 hours	
	Oncorhynchus mykiss (rainbow trout)	LL50	>13.4 mg/L	96 hours	
	Green Algae	NOEL	6.3 mg/L	72 hours	
	Water flea	NOEC	0.17 mg/L	21 days	
	Green Algae	NOEL	6.3 mg/L	72 hours	
	Water flea	NOEL	1 mg/L	21 days	
	activated sludge	IC50	29 mg/L	15 hours	

HEPTANE (142-82-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LL50	5.738 mg/L	96 hours	
	Daphnia magna	EC50	1.5 mg/L	48 hours	
	Chaetogammarus	EC50	0.2 mg/L	48 hours	

	marinus				
	Pseudokirchneriella subcapitata	EL50	4.34 mg/L	72 hours	
	Pseudokirchneriella subcapitata	NOELR	0.97 mg/L	72 hours	

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (64742-49-0)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	98% Biodegradation	Readily biodegradable

HEPTANE (142-82-5)

Method	Exposure time	Value	Results
			Expected to biodegrade very slowly

12.3. Bioaccumulative potential

Bioaccumulation May bioaccumulate.

Chemical name	Partition coefficient
HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS	4.66
HEPTANE	4.397

12.4. Mobility in soil

Mobility in soil The product is insoluble and floats on water. Expected to be relatively immobile in soil.

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
HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS	The substance is not PBT / vPvB
HEPTANE	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 Should not be released into the environment. Dispose of waste in accordance with environmental legislation. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

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	UN1206
14.2 UN proper shipping name	HEPTANES
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
ERG Code	3H

IMDG

14.1 UN number or ID number	UN1206
UN proper shipping name	HEPTANES
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
EmS-No	F-E, S-D
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1206
14.2 UN proper shipping name	HEPTANES
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1

ADR

14.1 UN number or ID number	UN1206
14.2 UN proper shipping name	HEPTANES
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1
Tunnel restriction code	(D/E)

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).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

P5c - FLAMMABLE LIQUIDS

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

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

Contact supplier for inventory compliance status

DSL/NDL

Contact supplier for inventory compliance status

EINECS/ELINCS

Contact supplier for inventory compliance status

ENCS

Contact supplier for inventory compliance status

IECSC

Contact supplier for inventory compliance status

KECI

Contact supplier for inventory compliance status

PICCS

Contact supplier for inventory compliance status

AIIC

Contact supplier for inventory compliance status

NZIoC

Contact supplier for inventory compliance status

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

A Chemical Safety Assessment has been carried out for this substance

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
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

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

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Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
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
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)
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)
U.S. 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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This material safety data sheet 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

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End of Safety Data Sheet