



PRODUCT: HEPTANE SBP 5 (HESBP5) REVISION: 4

DATED: 04/10/2021

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PRODUCT SPECIFICATION

Product Name	Heptane (SBP 5)
Alternative Name	Aliphatic Hydrocarbon, Heptane
Product Grade	
Specification Reference	HESBP5/3 (15/12/0029730)

SALES SPECIFICATION

Properties	Units	Method	Specification
Appearance at 18.3 – 25.6°C)		Visual	Clear, bright, transparent
Density 15°C	kg/l	ASTM D 1298/D4052	0.690 – 0.698
Saybolt colour		ASTM D 6045	Sup +30
Distillation	°C	ASTM D 1078	
Initial P.			90 min
Dry P.			100 max
C7 Content	% vol	ASTM D 5134	95 min
Non volatile	mg/100ml	ASTM D 1353	10 max
Aromatics	% vol	GLC	0.005 max
Benzene	% (v/v)	GLC	0.001 max
Sulphur	ppm	ASTM D 404	1
Doctor test		ASTM D 4952	Negative
Copper corrosion (3hrs at 50°C)		ASTM D 130	1
Bromine index		ASTM D 2710	50 max

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

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Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product Identifier

Product Name (EINECS)	HEPTANE
Chemical Family	Aliphatic hydrocarbon
EINECS Number	927-510-4
EU REACH Registration Number	01-2119475515-33-XXXX
CAS Number	64742-49-0
Product description	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Product type	Liquid
Other means of identification	Benzene Content < 0.1% w/w

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

Identified use(s)

Distribution of substance - Industrial

Manufacture of substance -Industrial

Formulation and (re)packing of substances and mixtures - Industrial

Other Consumer Uses - Consumer

Rubber production and processing - Industrial

Use as a fuel - Consumer

Use as a fuel - Industrial

Use as a fuel - Professional

Use as binders and release agents - Industrial

Use as binders and release agents - Professional

Use in Agrochemicals uses - Consumer

Use in Agrochemicals uses - Professional

Use in Cleaning Agents - Consumer

Use in Cleaning Agents - Industrial

Use in Cleaning Agents - Professional

Use in laboratories - Industrial

Use in laboratories - Professional

Use in Lubricants. - Professional: high Environmental Release Category

Use in Lubricants. - Professional: low Environmental Release Category

Use in Lubricants. Consumer: high Environmental Release Category

Use in Lubricants. - Consumer: Low release

Use in Lubricants. - Industrial

Use in Metal working fluids/rolling oils - Industrial

Uses Polymer processing - Industrial

Uses Blowing agent. - Industrial

Uses in Coatings - Consumer

Uses in Coatings - Industrial

Heptano - Uses in Coatings-Professional

Uses Mining industry - Industrial

1.3 Details of the supplier of the safety data sheet

Tennants Distribution Limited

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Cheetham

Manchester

M8 0GR

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Fax: 44(0) 161 203 4298

Email: msds@tennantsdistribution.com

1.4 Emergency telephone number

Tel: 44(0)844 335 0001 (24 hours)



2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition UVCB

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Flam. Liq. 2, H225

Skin Irrit. 2, H315

STOT SE 3, H336i

Asp. Tox. 1, H304

Aquatic Chronic 2, H411

See Section 16 for the full text of H Statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

2.2.1 According to Regulation (EC) No. 1272/2008 (CLP).

Hazard Pictogram



Signal word(s)

Danger.

Hazard statement(s)

H225 : Highly flammable liquid and vapour.

H315 : Causes skin irritation.

H336i : May cause drowsiness or dizziness.

H304 : May be fatal if swallowed and enters airways.

H411 : Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention

P210 : Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P241 : Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

P273 : Avoid release to the environment.

Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTRE or physician. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Storage: Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Supplemental label elements: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Yes, applicable.

Tactile warning of danger: Yes, applicable.

2.3 Other hazards

Substance does not meet the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:

Substance does not meet the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

Other hazards which do not result in classification: Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: UVCB

Product/ingredient name	Identifiers	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Type
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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	REACH #. 01-2119475515-33-XXXX EC: 927-510-4 CAS: 64742-49-0 Index: 649-328-00-1	100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE3, H336i Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[A]
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There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

- [*] Substance
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Get medical attention immediately. Call a poison centre or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Over exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:
Pain or irritation, watering, redness.

Inhalation: Adverse symptoms may include the following:
Nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.

Skin contact: Adverse symptoms may include the following:
Irritation, redness.

Ingestion: Adverse symptoms may include the following:
Nausea or vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable: In case of fire, use water spray, foam, dry chemicals or CO₂.

Not suitable: Do not use water jet.



5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products: No specific data.

5.3 Advice for fire-fighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Fire-fighting measures: May form explosive mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, spark, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section



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10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds Named substances

Name	Notification and MAPP threshold	Safety report threshold
Petroleum products and alternative fuels (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams) (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2500 tonne	25000 tonne

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Occupational exposure limits

Product/ingredient name	Exposure limit values
Heptanes (and isomers)	EH40/2005 WELs (United Kingdom (UK), 8/2007) TWA: 500 ppm 8 hour(s)

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere 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. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents form methods for the determination of hazardous substances.

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2085 mg/m ³	Workers	Systemic
	DNEL	Long term, Oral	149 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	447 mg/m ³	Consumers	Systemic

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Was contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles.



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Skin protection

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): Impervious gloves, polyvinyl alcohol (PVA) polyethylene (PE) Viton® nitrile rubber.

Body protection

Use suitable protective equipment.

Respiratory protection

If operating conditions cause high vapour concentrations or the TLV is exceeded, use supplied-air respirator.

Environmental exposure controls

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Characteristic
Odour threshold	Not available
pH	Not available
Melting point/freezing point	< -20° C
Initial boiling point and boiling range	90 to 100° C
Flash point	Closed cup < 0° C
	Open cup < 0° C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Burning time	Not applicable
Burning rate	Not applicable
Upper/lower flammability or	Lower 0.6%
Explosive limits	Upper 7%
Vapour pressure	6 kPa (20° C)
Vapour density	Not available
Relative density	0.69 to 0.698
Density	Not available
Solubility(ies)	Insoluble in the following materials: cold water and hot water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	> 200° C
Decomposition temperature	Not available
Viscosity	Kinematic: 0.005 to 0.012 cm ² /s
	Kinematic (40° C): 0.0055 cm ² /s
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information

No additional information

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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11. TOXICOLOGICAL INFORMATION					
11.1 Information on toxicological effects					
Acute toxicity:					
Product/ingredient name	Result	Species	Dose	Exposure	
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	LC50 Inhalation Vapour	Rat	> 23300 mg/m3	4 hours	
	LD50 Dermal	Rat	> 2920 mg/kg	-	
	LD50 Oral	Rat	> 5840 mg/kg	-	
Conclusion/summary: Not available.					
Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Hydrocarbons, C7 n-alkanes, isoalkanes, cyclics	Skin – Irritant	Rabbit	-	-	-
	Eyes – Oedema of the conjunctivae	Rabbit	0	-	-
	Eyes – Redness of the Conjunctivae	Rabbit	0	-	-
Conclusion/summary					
Eyes: Based on available data, the classification criteria are not met.					
Sensitisation:					
Conclusion/summary: Not available.					
Mutagenicity					
Product/ingredient name	Test	Experiment	Result		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	Experiment: In vitro Subject: Bacteria	Negative		
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative		
Conclusion/summary: Not available.					
Carcinogenicity					
Conclusion/summary: Not available.					
Reproductive toxicity					
Conclusion/summary: Based on available data, the classification criteria are not met.					
Teratogenicity					
Conclusion/summary: Not available.					
Specific target organ toxicity (single exposure)					
Product/ingredient name	Category	Route of exposure	Target organs		
Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclics	Category 3	Inhalation	Narcotic effects		
Specific target organ toxicity (repeated exposure)					
Not available.					
Aspiration hazard					
Product ingredient name		Result			
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		ASPIRATION HAZARD – Category 1			
Information on the likely routes of exposure: Not available					
Potential acute health effects					
Eye contact: Causes serious eye irritation.					
Inhalation: can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.					
Skin contact: Causes skin irritation.					
Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.					
Symptoms related to the physical, chemical and toxicological characteristics					
Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness.					
Inhalation: Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.					
Skin contact: Adverse symptoms may include the following: irritation, redness.					
Ingestion: Adverse symptoms may include the following: nausea or vomiting.					
Delayed and immediate effects and also chronic effects from short and long term exposure					
Short term exposure					
Potential immediate effects: Not available.					



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Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Chronic NOAEL Rat inhalation vapour		12470 mg/m3	1 year
Conclusion/summary: Not available.				
General: No known significant effects or critical hazards.				
Carcinogenicity: No known significant effects or critical hazards.				
Mutagenicity: No known significant effects or critical hazards.				
Teratogenicity: No known significant effects or critical hazards.				
Developmental effects: No known significant effects or critical hazards.				
Fertility effects: No known significant effects or critical hazards.				
Other information: Not available.				

12. ECOLOGICAL INFORMATION

12.1 Toxicity

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EC50 10 mg/L	Alga – Raphidocelis	72 hours
	LC50 3 mg/l	Daphnia – Daphnia magna	48 hours
	LC50 > 13.4 mg/l	Fish – Oncorhynchus mykiss	96 hours
	NOEC 1 mg/L	Daphnia – Daphnia magna	21 days
	NOEC 1.534 mg/L	Fish	28 days

Conclusion/summary: Not available

12.2 Persistence and degradability

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Dose</u>	<u>Inoculum</u>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	301F Ready Biodegradability-Manometric Respirometry Test	98%-Readily-28 days	-	-

Conclusion/summary: Not available.

<u>Product/ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	-	Readily

12.3 Bio accumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: No.

vPvB: No.

12.6 Other adverse effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of the product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.



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Packaging

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

14.1 UN Number ADR/RID ADN/ADNR IMDG IATA	1206 1206 1206 UN1206
14.2 Proper Shipping Name ADR/RID ADN/ADNR IMDG IATA	HEPTANES HEPTANES HEPTANES: Marine pollutant (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) Heptanes
14.3 Transport hazard class(es) ADR/RID ADN/ADNR IMDG IATA	 3
14.4 Packing group ADR/RID Packing group ADN/ADNR Packing group IMDG Packing group IATA Packing group	II II II II
14.5 Environmental hazards ADR/RID ADN/ADNR IMDG IATA	Yes Yes Yes Yes
14.6 Special precautions for users ADR/RID/ADN/ADNR/IMDG/IATA	Not available
Additional information ADR/RID ADN/ADNR IMDG IATA	Limited quantity LQ4 Tunnel code D/E - Emergency schedules (EmS) F-E, S-D Passenger and Cargo aircraft Quantity limitation: 5. Packaging instructions: 305 Cargo aircraft only: Quantity limitation: 60. Packaging instructions: 307 Limited Quantities Passenger Aircraft: Quantity limitation: 1. Packaging instructions: Y305
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Proper shipping name: Heptanes Ship type: 2 Pollution category: X	



15. REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV – List of substances subject to authorisation

Substances of very high concern: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Restricted to professional users.

Other EU regulations

Europe inventory: This material is listed or exempted.

Black List Chemicals: Not listed.

Priority List Chemicals: Not listed.

Integrated pollution prevention and control list (IPPC) – Air: Not listed.

Integrated pollution prevention and control list (IPPC) – Water: Not listed.

International regulations

Chemical Weapons Convention List Schedule I Chemicals: Not listed.

Chemical Weapons Convention List Schedule II Chemicals: Not listed.

Chemicals Weapons Convention List Schedule III Chemicals: Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name

Petroleum products and alternative fuels (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams) (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Inventory list

Result of all inventory lists

Australia inventory (AICS) - This material is listed or exempted. PETROSOL D HEPTANE [100%]

Status entered: Listed

Canada inventory - This material is listed or exempted. PETROSOL D HEPTANE [100%]

Status entered: Listed on DSL

China inventory (IECSC) - This material is listed or exempted. PETROSOL D HEPTANE [100%]

Status entered: Listed

Europe inventory - This material is listed or exempted. PETROSOL D HEPTANE [100%]

Status entered: Listed in EINECS Japan inventory (ENCS) - Not determined.

PETROSOL D HEPTANE [100%]

Status entered: (no data entered)

Not determined is assumed for an ingredient without composition and without entered inventory

status Japan inventory (ISHL) - Not determined.

PETROSOL D HEPTANE [100%]

Status entered: (no data entered)

Not determined is assumed for an ingredient without composition and without entered inventory

status Korea inventory - This material is listed or exempted.

PETROSOL D HEPTANE [100%]

Status entered: Listed [Korea inventory (KECI)] Mexico inventory - This material is listed or exempted.

PETROSOL D HEPTANE [100%]

Status entered: Listed

New Zealand Inventory of Chemicals (NZIoC) - This material is listed or exempted. PETROSOL D

HEPTANE [100%]

Status entered: Listed

Philippines inventory (PICCS) - This material is listed or exempted. PETROSOL D HEPTANE [100%]

Status entered: Listed

Thailand inventory - Not determined. PETROSOL D HEPTANE [100%]

Status entered: (no data entered)

Not determined is assumed for an ingredient without composition and without entered inventory status Turkey inventory - This material is listed or exempted.

PETROSOL D HEPTANE [100%]

Status entered: Listed

Taiwan Chemical Substances Inventory (TCSI) - This material is listed or exempted. PETROSOL D

HEPTANE [100%]

Status entered: Listed



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United States inventory (TSCA 8b) - This material is listed or exempted.
'Listed' status taken into account. 'Active' and 'Inactive' statuses will be treated as 'Listed', and no distinction will be done between them
PETROSOL D HEPTANE [100%]
Status entered: Active
New entry Active considered as 'Listed'
Vietnam inventory - This material is listed or exempted. PETROSOL D HEPTANE [100%]
Status entered: Listed

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms: ATE = Acute Toxicity Estimate. CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]. DNEL = Derived No Effect Level. EUH statement = CLP-specific Hazard statement. PNEC = Predicted No Effect Concentration. RRN = REACH Registration Number.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	Expert judgement
Skin Irrit. 2, H315	Expert judgement
STOT SE 3, H336i	Expert judgement
Asp Tox. 1, H304	Expert judgement
Aquatic Chronic 2, H411	Expert judgement

Full text of abbreviated H statements:

H225 : Highly flammable liquid and vapour.

H315 : Causes skin irritation.

H336i: May cause drowsiness or dizziness.

H304 : May be fatal if swallowed and enters airways.

H411 : Toxic to aquatic life with long lasting effects.

Source of key data used to compile the data sheet

Supplier information

Modifications from last revision

The Safety Data Sheet has been revised in Sections 2, 3, 7 and 15.

Date: 04/10/2021

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