CAS-No.: 142-82-5 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 142-82-5
Product code	: 0159B
Chemical structure	CH ₃ (CH ₂) ₅ CH ₃

1.2.	Relevant identified uses of t	he substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of	the substance/mixture	: Laboratory chemicals, Manufacture of substances
1.2.2.	Uses advised against	
No add	litional information available	

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225 Category 2 Skin corrosion/irritation, H315 Category 2 Specific target organ H336 toxicity - Single exposure, Category 3, Narcosis Aspiration hazard, H304 Category 1 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of hazard classes and H-statements : see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xn; R65 Xi; R38 N; R50/53 R67 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) N	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS07 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 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. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 - Do NOT induce vomiting. P201 - Obtain special instructions before use.

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/information on ingredients			
3.1.	Substances		
Name		: n-HEPTANE FOR HPLC & SPECTROSCOPY	
CAS-No	0.	: 142-82-5	

Full text of R- and H-statements: see section 16

3.2.	Mixtures		
Not ap	oplicable		
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SECTION 4: First aid measures						
4.1. Description of first aid measures						
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.					
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.					
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.					
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor.					
4.2. Most important symptoms and ef	fects, both acute and delayed					
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.					
Symptoms/effects after skin contact	: Causes skin irritation.					
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.					
4.3. Indication of any immediate med	cal attention and special treatment needed					
No additional information available						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
	: Carbon dioxide. Dry powder. Foam. Water spray.					
	: Do not use extinguishing media containing water.					
5.2. Special hazards arising from the	substance or mixture					
Fire hazard	: Highly flammable liquid and vapour.					
Explosion hazard	: May form flammable/explosive vapour-air mixture.					
·						
5.3. Advice for firefighters						
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.					
SECTION 6: Accidental release measures						
6.1. Personal precautions, protective	equipment and emergency procedures					
	: Remove ignition sources. Use special care to avoid static electric charges. No open					
General measures	flames. No smoking.					
6.1.1. For non-emergency personnel						
Emergency procedures	: Evacuate unnecessary personnel.					
6.1.2. For emergency responders						
Protective equipment	: Use personal protective equipment as required.					
Emergency procedures	: Ventilate area.					
6.2. Environmental precautions						
Very toxic to aquatic life with long lasting effe	ects.					
6.3. Methods and material for contain	ment and cleaning up					
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.					

6.4. Reference to other sections

No additional information available

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7.1. Precautions for safe handling	g
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	 Keep away from sources of ignition - No smoking. Use only non-sparking tools. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving wask
	work.
7.2. Conditions for safe storage,	including any incompatibilities
7.2. Conditions for safe storage, Technical measures	
	 including any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof
Technical measures	 including any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Technical measures Storage conditions	 including any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Keep in fireproof place. Keep container tightly closed.

8.1. Control parameters

No additional information available

8.2. Exposure controls			
Hand protection	 Protective gloves Chemical goggles or safety glasses Wear suitable protective clothing 		
Eye protection			
Skin and body protection			
Respiratory protection	: Wear appropriate mask		
SECTION 9: Physical and chemical pr	operties		
9.1. Information on basic physical	l and chemical properties		
Physical state	WLiquid		
Colour	: Clear Colorless.		
Odour	: mild odor - gasoline-like.		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=	1) : 2.8		
Melting point	: -91 °C		
Freezing point	: No data available		
Boiling point	: 98 °C		

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Flash point	: -4 °C
Auto-ignition temperature	: 223 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.
Vapour pressure	: 53.3 hPa at 20 °C
Relative vapour density at 20 °C	: 3.5
Relative density	: No data available
Density	= : 0.68 g/cm ³
Solubility	: Water: Insoluble in water
Log Pow	: > 3
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.011 - 0.07 vol %
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous rea	actions
No additional information available	
10.4. 🔋	
Open flame. Heat. Overheating.	
10.5. Incompatible materials	

Oxidizing agent.

10.6. Hazardous decomposition products

May release flammable gases.

SECTIO	N 11: Toxicological information	
11.1.	Information on toxicological effect	cts
Acute to	vxicity	: Not classified

: Causes skin irritation.

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		5 ()	
Serious eye damage/irritation	:	Not classified	
Respiratory or skin sensitisation	:	Not classified	
Germ cell mutagenicity	:	Not classified	
Carcinogenicity	:	Not classified	
Reproductive toxicity	:	Not classified	
STOT-single exposure	:	May cause drowsiness or dizziness.	
STOT-repeated exposure	:	Not classified	
Assistion borord		May be fatal if awallowed and antons simulate	
Aspiration hazard	•	May be fatal if swallowed and enters airways.	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.

12.2.	Persistence and degradability	
n-HEF	PTANE FOR HPLC & SPECTROSCO	PY (142-82-5)
Persis	stence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential		
n-HEF	PTANE FOR HPLC & SPECTROSCO	PY (142-82-5)
Log Po	ow	> 3

	12.4.	Mobility	in soil	
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No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6.	Other adverse effects		
No addit	ional information available		
SECTIO	N 13: Disposal considerations		
13.1.	Waste treatment methods		
	Packaging disposal endations	:	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Addition	al information	:	Handle empty containers with care because residual vapours are flammable.
Ecology	- waste materials	:	Hazardous waste due to toxicity.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 1206
UN-No. (IMDG)	: 1206
UN-No. (IATA)	: 1206
UN-No. (ADN)	: 1206
UN-No. (RID)	: 1206
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: HEPTANES
Proper Shipping Name (IMDG)	: HEPTANES
Proper Shipping Name (IATA)	: Heptanes
Proper Shipping Name (ADN)	: HEPTANES
Proper Shipping Name (RID)	: HEPTANES
Transport document description (ADR)	: UN 1206 HEPTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1206 HEPTANES, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1206 Heptanes, 3, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1206 HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1206 HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

14.3.	Transport hazard class(es)		
ADR			
Transp	ort hazard class(es) (ADR)	: 3	
Dangei	r labels (ADR)	: 3	



IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	



Transport hazard class(es) (IATA)	
Hazard labels (IATA)	



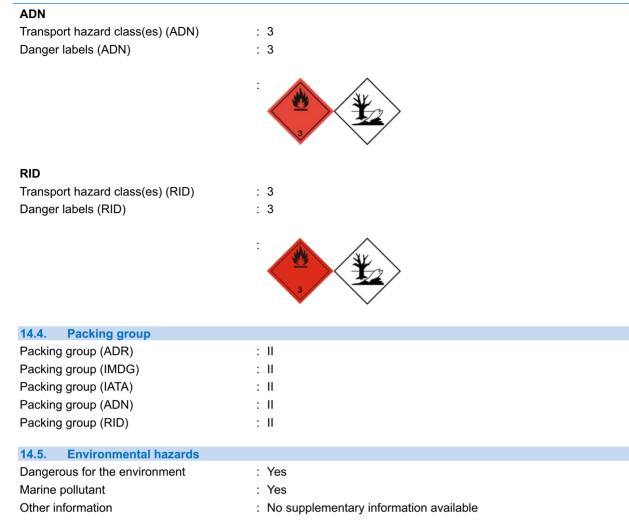
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14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	33 1206

: D/E

Tunnel restriction code (ADR)

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EAC code	: 3YE
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: В
Properties and observations (IMDG)	: Colourless, volatile liquids. Explosive limits: 1.1% to 6.7% n-HEPTANE: flashpoint - 4°C c.c. Immiscible with water. Irritating to skin, eyes and mucous membranes.
MFAG-No	: 128
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3H
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

n-HEPTANE FOR HPLC & SPECTROSCOPY is not on the REACH Candidate List n-HEPTANE FOR HPLC & SPECTROSCOPY is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Immission Control Act - 12.BImSchV	

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed	
SZW-lijst van mutagene stoffen	:	The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed	
Denmark			
Classification remarks	:	Emergency management guidelines for the storage of flammable liquids must be followed	
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product	

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
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.
H410	Very toxic to aquatic life with long lasting effects.
R11	Highly flammable
R38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product