## N-PENTANE FOR PESTICIDE RESIDUE TRACE ANALYSIS MSDS



## CAS-No.: 109-66-0 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.	: 109-66-0	
Produ	ict code	: 0238A	
Chem	ical structure	<sup>:</sup> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> C	CH3

1.2.	Relevant identified uses of the	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of the	he substance/mixture	: Laboratory chemicals, Manufacture of substances
1.2.2. No addit	Uses advised against tional information available	
1.3.	Details of the supplier of the sa	fety data sheet
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com		
1.4.	Emergency telephone number	
Emerge	ncy number	: +91 7707855700 (9:00am - 6:00 pm)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids,<br/>Category 2H225Specific target organ<br/>toxicity — Single<br/>exposure, Category 3,<br/>NarcosisH336Aspiration hazard,<br/>Category 1H304Hazardous to the aquatic<br/>environment — ChronicH411Hazard, Category 2H411

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

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

F+; R12 Xn; R65 N; R51/53 R66 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) Hazard pictograms (CLP)	
Signal word (CLP) Hazard statements (CLP)	<ul> <li>GHS02 GHS07 GHS08 GHS09</li> <li>Danger</li> <li>H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 - Avoid breathing vapours, gas, fume, dust.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P331 - Do NOT induce vomiting.</li> </ul>

#### 2.3. Other hazards

No additional information available

# SECTION 3: Composition/information on ingredients 3.1. Substances Name : n-PENTANE For pesticide residue trace analysis CAS-No. : 109-66-0

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

#### 3.2. Mixtures

Not applicable

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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	: Get immediate medical advice/attention. Wash with plenty of water/
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. Rinse mouth.
4.2. Most important symptoms and e	fforts, both acuto and dolayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
-	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Extremely 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 measure	S
	equipment and emergency procedures
6.1. Personal precautions, protective General measures	<ul> <li>equipment and emergency procedures</li> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> </ul>
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open
General measures 6.1.1. For non-emergency personnel Emergency procedures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> </ul>
General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> </ul>
General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> </ul>
General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> </ul>
General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>
General measures6.1.1.For non-emergency personnelEmergency procedures6.1.2.For emergency respondersProtective equipmentEmergency procedures6.2.Environmental precautions	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>
General measures         6.1.1.       For non-emergency personnel         Emergency procedures         6.1.2.       For emergency responders         Protective equipment         Emergency procedures         6.2.       Environmental precautions         Toxic to aquatic life with long lasting effects         6.3.       Methods and material for contain	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>
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General measures         6.1.1.       For non-emergency personnel         Emergency procedures         6.1.2.       For emergency responders         Protective equipment         Emergency procedures         6.2.       Environmental precautions         Toxic to aquatic life with long lasting effects         6.3.       Methods and material for contai         Methods for cleaning up	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>
General measures         6.1.1. For non-emergency personnel         Emergency procedures         6.1.2. For emergency responders         Protective equipment         Emergency procedures         6.2. Environmental precautions         Toxic to aquatic life with long lasting effects         6.3. Methods and material for contai         Methods for cleaning up         6.4. Reference to other sections	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>
General measures         6.1.1. For non-emergency personnel         Emergency procedures         6.1.2. For emergency responders         Protective equipment         Emergency procedures         6.2. Environmental precautions         Toxic to aquatic life with long lasting effects         6.3. Methods and material for contai         Methods for cleaning up         6.4. Reference to other sections         No additional information available         SECTION 7: Handling and storage	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>
General measures         6.1.1. For non-emergency personnel         Emergency procedures         6.1.2. For emergency responders         Protective equipment         Emergency procedures         6.2. Environmental precautions         Toxic to aquatic life with long lasting effects         6.3. Methods and material for contai         Methods for cleaning up         6.4. Reference to other sections         No additional information available         SECTION 7: Handling and storage         7.1. Precautions for safe handling	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> <li>Noment and cleaning up</li> <li>On land, sweep or shovel into suitable containers. Collect spillage.</li> </ul>
General measures         6.1.1. For non-emergency personnel         Emergency procedures         6.1.2. For emergency responders         Protective equipment         Emergency procedures         6.2. Environmental precautions         Toxic to aquatic life with long lasting effects         6.3. Methods and material for contai         Methods for cleaning up         6.4. Reference to other sections         No additional information available         SECTION 7: Handling and storage	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.</li> <li>Evacuate unnecessary personnel.</li> <li>Use personal protective equipment as required.</li> <li>Ventilate area.</li> </ul>

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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 work.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: gasoline-like. mild odor. pleasant odor.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: 28.6
Melting point	: -130 °C
Freezing point	: No data available
Boiling point	: 35 - 36 °C
Flash point	: -49 °C
Auto-ignition temperature	: 260 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Extremely flammable liquid and vapour.
Vapour pressure	: 579 hPa at 20°C

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Relative vapour density at 20 °C	: 2.5
Relative density	: No data available
Density Solubility	: 0.62 g/cm³ : Water: 0.04 % at 20°C
Log Pow	: 3.39
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.014 - 0.083 vol %
9.2 Other information	

#### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
40.4	Departituite	
10.1.	Reactivity	
No additional information available		
10.2.	Chemical stability	
Stable under normal conditions.		

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Sparks. Heat. Open flame.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information		
11.1. Information on toxicological effect	ts	
Acute toxicity :	Not classified	
Skin corrosion/irritation :	Not classified	
Additional information :	Repeated exposure may cause skin dryness or cracking.	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	
· ·	May cause drowsiness or dizziness.	

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STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

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

12.2. Persistence and degradability		
n-PENTANE For pesticide residue trace analysis (109-66-0)		
Persistence and degradability May cause long-term adverse effects in the environment.		
12.3. Bioaccumulative potential		
n-PENTANE For pesticide residue trace analysis (109-66-0)		
Log Pow	3.39	
12.4. Mobility in soil		

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	3
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity.

SECTION 14: Transport information

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

UN-No. (ADR)       : 1265         UN-No. (IMDG)       : 1265         UN-No. (IATA)       : 1265         UN-No. (ADN)       : 1265	14.1. UN number		
UN-No. (IATA) : 1265	UN-No. (ADR)	: 1265	
	UN-No. (IMDG)	: 1265	
UN-No. (ADN) : 1265	UN-No. (IATA)	: 1265	
	UN-No. (ADN)	: 1265	

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UN-No. (RID)	: 1265
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: PENTANES
Proper Shipping Name (IMDG)	: PENTANES
Proper Shipping Name (IATA)	: Pentanes
Proper Shipping Name (ADN)	: PENTANES
Proper Shipping Name (RID)	: PENTANES
Transport document description (ADR)	: UN 1265 PENTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1265 PENTANES, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1265 Pentanes, 3, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1265 PENTANES, 3, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1265 PENTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

14.3.	Transport hazard class(es)
ADR	
Transp	ort hazard class(es) (ADR)
Dange	r labels (ADR)



#### IMDG

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

: 3 : 3

: 3 : 3



#### ΙΑΤΑ

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



:



#### ADN

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





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: 3
: 3
: 11
: 11
: 11
: 11
: 11
: Yes
: Yes

Other information	: No supplementary information available

#### 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
Special packing provisions (ADR)	:	B8
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)	:	L1.5BN
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Operation (ADR)	:	S2, S20
(ADR)		
Hazard identification number (Kemler No.)	:	33
	:	<sup>33</sup> <b>33</b>
Hazard identification number (Kemler No.)	:	
Hazard identification number (Kemler No.)	:	33
Hazard identification number (Kemler No.) Orange plates	:	33 1265
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR)	:	33 1265 D/E
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code	:	33 1265 D/E
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea	: : :	33 1265 D/E 3YE
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG)		33 1265 D/E 3YE
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)		33 1265 D/E 3YE 1 L E2
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)		33 1265 D/E 3YE 1 L E2 P001
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)		33 1265 D/E 3YE 1 L E2 P001 IBC02

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EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: E
Properties and observations (IMDG)	: Colourless liquids with a paraffin-like odour. Explosive limits: 1.4% to 8%. normal- PENTANE: boiling point 36°C. Immiscible with water . Slightly irritating to skin, eyes and mucous membranes. Narcotic in high concentrations.
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)	: Т
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
Special packing provisions (RID)	: B8
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)	: L1.5BN
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

**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-PENTANE For pesticide residue trace analysis is not on the REACH Candidate List n-PENTANE For pesticide residue trace analysis is not on the REACH Annex XIV List

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#### 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.BlmSchV

#### Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	<ul> <li>The substance is not listed</li> <li>The substance is not listed</li> <li>The substance is not listed</li> </ul>
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	
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

#### 15.2. Chemical safety assessment

No additional information available

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

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

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
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.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R12	Extremely flammable
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness

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F+	Extremely flammable
Ν	Dangerous for the environment
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