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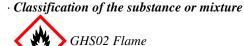
Reviewed on 03/20/2014

## **1** Identification

- · Product identifier
- · Trade name: Heptane
- · Article number: 0150 JLM
- CAS Number: 142-82-5
- EC number:
- 205-563-8
- Index number: 601-008-00-2

- **Jamson Labs** Quality Chemicals Since 1973
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Jamson Laboratories, Inc. 101 South Bayview Blvd. Oldsmar, FL 34677 USA
- Information department: Product Safety Department
  Emergency telephone number: ChemTel Inc. (800) 255-3924 Intl. +01 (813) 248-0585

2 Hazard(s) identification



Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard



Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

• Hazard-determining components of labeling: heptane

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### Trade name: Heptane

(Contd. of page 1)
· Hazard statements
Highly flammable liquid and vapor.
Causes skin irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
· Precautionary statements
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 1
$\frac{3}{Fire = 3}$
$\frac{1}{1} \frac{0}{Reactivity} = 0$
Keuchvily = 0
· HMIS-ratings (scale 0 - 4)
HEALTH 1 $Health = 1$
FIRE 3 Fire = 3
$\frac{1}{\text{REACTIVITY}} = 0$
· Other hazards

· Results of PBT and vPvB assessment

· *PBT:* Not applicable.

· vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 142-82-5 heptane
- Identification number(s)
- EC number: 205-563-8
- · Index number: 601-008-00-2

## 4 First-aid measures

- · Description of first aid measures
- After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

*Remove contact lenses if able to do so. Rinse opened eye for several minutes under running water.* 

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#### Trade name: Heptane

• After swallowing: A person vomiting while lying on their back should be turned onto their side. Do not induce vomiting; immediately call for medical help. If symptoms persist consult doctor.

### • Information for doctor:

- Most important symptoms and effects, both acute and delayed Coughing Nausea Gastric or intestinal disorders Cramp Headache Dizziness
- · Danger Danger of pulmonary edema.
- · Indication of any immediate medical attention and special treatment needed
- If swallowed or in case of vomiting, danger of entering the lungs.

## **5** Fire-fighting measures

### · Extinguishing media

- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture Carbon monoxide (CO)
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.* 

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.

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### Trade name: Heptane

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

### · Components with limit values that require monitoring at the workplace:

### 142-82-5 heptane

- PEL Long-term value: 2000 mg/m<sup>3</sup>, 500 ppm
- REL Long-term value: 350 mg/m<sup>3</sup>, 85 ppm Ceiling limit value: 1800\* mg/m<sup>3</sup>, 440\* ppm \*15-min
- *TLV* Short-term value: 2050 mg/m<sup>3</sup>, 500 ppm Long-term value: 1640 mg/m<sup>3</sup>, 400 ppm

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- $\cdot$  General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

## Neoprene gloves

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## Safety Data Sheet acc. to OSHA HCS

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## Trade name: Heptane

• Not suitable are gloves made of the following materials:	
Natural rubber, NR	
Leather gloves	
• Eye protection:	
Safety glasses	



Tightly sealed goggles

• **Body protection:** Solvent resistant protective clothing

Information on basic physical and c	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	Colorless
· Odor:	Solvent-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-90.5 °C (-131 °F)
<b>Boiling point/Boiling range:</b>	98 °C (208 °F)
· Flash point:	-4 °C (25 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	215 °C (419 °F)
Decomposition temperature:	Not determined.
• Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	6.7 Vol %
· Vapor pressure at 20 °C (68 °F):	48 hPa (36 mm Hg)
• Density at 20 °C (68 °F):	0.696 g/cm <sup>3</sup> (5.808 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
• Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water at 20 °C (68 °F):	0.05 g/l
· Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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Trade name: Heptane

Organic solvents: VOC content:

· Other information

100.0 % 100.0 % 696.0 g/l / 5.81 lb/gl No further relevant information available.

## **10 Stability and reactivity**

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with oxidizing agents.

Flammable.

- Reacts with oxygen.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- *Hazardous decomposition products: Carbon monoxide and carbon dioxide*

Hydrocarbons

## **11 Toxicological information**

### · Information on toxicological effects

- Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- $\cdot$  Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

### · NTP (National Toxicology Program)

Substance is not listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects:
- *Remark:* Very toxic for fish
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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## Safety Data Sheet acc. to OSHA HCS

Printing date 03/20/2014

Reviewed on 03/20/2014

### Trade name: Heptane

Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

• *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.* 

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	UN1206	
UN proper shipping name		
DOT	Heptanes	
· IMDG, IATA	HEPTANES	
Transport hazard class(es)		
·DOT		
PLAMMABLE LIQUO		
3		
· Class	3 Flammable liquids.	
· Label	3	
· IMDG, IATA		
3		
· Class	3 Flammable liquids.	
· Label	3	
Packing group		
DOT, IMDG, IATA	II	
Environmental hazards:		
• Marine pollutant:	No	
-		
Special precautions for user	33	
· Danger code (Kemler): · EMS Number:	55 F-E,S-D	

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Trade name: Heptane

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

• UN "Model Regulation":

# UN1206, Heptanes, ENVIRONMENTALLY HAZARDOUS, 3, II

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

 $\cdot$  Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicalsknown to cause reproductive toxicity for males.

Substance is not listed.

• Chemicals known to cause developmental toxicity: Substance is not listed.

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

142-82-5 heptane

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

• Hazard-determining components of labeling: heptane

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USA

Printing date 03/20/2014

Reviewed on 03/20/2014

#### Trade name: Heptane

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Hazard statements

Highly flammable liquid and vapor.
Causes skin irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Environment protection department.
- · Date of preparation / last revision 03/20/2014

Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)

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