

# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

#### 1.1 Product identifier

Trade name: Heptane

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

Relevant identified uses: Industrial or Commercial Use only.

Uses advised against: All other uses.

### 1.3 Details of the supplier of the Safety Data Sheet

USA Lab Inc. 12400 Belden Ct., Livonia, MI 48150, USA

Hazard emergency contact: Chemtrec 800-424-9300

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classification according to OSHA Hazardous Communication Standard 29 CFR 1910.1200.

Flammable liquid, category 2
Aspiration toxicity, category 1
Skin irritation, category 2
Respiratory sensitization, category 1

#### 2.2 Label elements

Labelling according to OSHA Hazardous Communication Standard 29 CFR 1910.1200:



Signal word: Danger

#### **Hazard statements:**

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

# **Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### 2.3 Other hazards

None known.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture meeting the criteria for classification in accordance with OSHA Hazardous Communication Standard 29 CFR 1910.1200.

#### Ingredients:

Name	CAS No.	GHS classification	% (w/v)		
Naphtha (pet),	64742-49-0 /	Flam. Liq. 2, H225	90 – 100		
hydrotreated It	426260-76-6 /	Asp. Tox. 1, H304			
AND/OR Heptane,	64742-89-8	Skin Irrit. 2, H315			
branched, cyclic		Resp. Sens. 1, H336			
and linear AND/OR					
Solvent naphtha					
(pet), lt aliph.					
n-Heptane	142-82-5	Flam. Liq. 2, H225	30 – 50		
		Asp. Tox. 1, H304			
		Skin Irrit. 2, H315			
		Resp. Sens. 1, H336			
		Aquatic Acute 1, H400			
		Aquatic Chronic 1, H410			

# **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

**Following inhalation:** Provide fresh air. In all cases of doubt, or when symptoms persist,

seek medical advice.

Following skin contact: After contact with skin, wash immediately with plenty of water.

Immediate medical treatment required because corrosive injuries that

are not treated are hard to cure.

Following eye contact: In case of contact with eyes flush immediately with plenty of flowing

water for 10 to 15 minutes holding eyelids apart and consult an

ophthalmologist. Protect uninjured eye.

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Following ingestion: Rinse mouth immediately and drink plenty of water. Call a physician

immediately. If swallowed danger of perforation of the esophagus and

the stomach (strong corrosive effects).

Protection of first aider: Not applicable.

4.2 Most important symptoms and effects

**Symptoms:** The known symptoms and effects are described in section 2.2 of this

SDS.

**Risks:** Untreated symptoms may result in additional health risks.

4.3 Indication of any immediate medical and special treatment

The physician may contact the national poison center for advice.

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical

Unsuitable extinguishing media: High volume water jet.

#### 5.2 Specific hazards arising from mixture

No hazardous combustion products are known.

#### 5.3 Advice for fire fighters

#### Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

#### 5.4 Other information

No other information available.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions:

Prevent product from entering drains.

# 6.3 Methods and materials for containment and cleaning up:

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

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Contain spillage, and then collect with non-combustible ab-sorbent material, (e.g. sand, earth, diatomaceous earth, ver-miculite) and place in container for disposal according to local / national regulations (see section 13).

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials:** See section 10.

#### 7.3 Specific end uses

See section 1.2.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control parameters

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
64742-49-0 / 426260-76-6 / 64742-89-8	Naphtha (pet), hydrotreated AND/OR Heptane, branched, cyclic and linear AND/OR Sol-vent naphtha (pet)	TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
142-82-5 **Heptane		TWA	85 ppm	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		STEL	500 ppm 2,000 mg/m3	OSHA P0
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH

#### 8.2 Exposure controls

**Engineering controls:** 

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Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal Protective equipment:**

Hand: Wear suitable gloves. Chemical protection gloves are suitable, which are tested

according to EN 374.

<u>Body protection:</u> Appropriate protective clothing should be worn to prevent skin contact.

<u>Eye:</u> Eye wash bottle with pure water. Tightly fitting safety goggles

Respiratory: No personal respiratory protective equipment normally re-quired.

In the case of vapour formation use a respirator with an ap-proved filter.

Other measures: No statement available.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:LiquidColor:ColorlessOdor:CharacteristicOdor threshold:No data availablepH:No data available

Melting point/range: -90.5 °C
Boiling point/range: 98.2 – 100 °C

Flash point: -9 °C Evaporation rate: >1

Flammability: flammable liquid in accordance with GHS

criteria

Upper/lower flammability or explosive limits:35 g/m³ (LEL) - 280 g/m³ (UEL)Vapor pressure:< 45 mmHg at 20 - 25 °C</th>Vapor density:< 3.52 at 20 - 25 °C</th>Relative Density:No data available

**Solubility(ies):** 0.002 g /l at 25 °C (water)

Partition coefficient (n-octanol/water): 4.5

Auto-ignition temperature:246-260 °CDecomposition temperature:No data availableViscosity:No data availableExplosive properties:No data availableOxidizing properties:No data available

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

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# 10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

#### 10.4 Conditions to avoid

Keep away from heat, flame, sparks and other ignition sources.

Do not pressurize, cut, weld, braze, solder, drill, grind or ex-pose containers to heat or sources of ignition.

#### 10.5 Incompatible materials

halogens peroxides Strong oxidizing agents Strong reducing agents

#### 10.6 Hazardous decomposition products

Carbon oxides Sulphur oxides

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **General information:**

This product does not contain known human carcinogens.

# 11.1 Information on toxicological effects

#### **Acute Toxicity:**

No statements available for any of the ingredients.

#### Skin corrosion/irritation:

Causes skin irritation.

#### Serious eye damage/irritation:

No statements available for any of the ingredients.

#### Respiratory or skin sensitization:

May cause drowsiness or dizziness.

#### Germ cell mutagenicity:

No statements available for any of the ingredients.

#### **Carcinogenicity:**

This product does not contain known human carcinogens.

#### Reproductive toxicity:

No statements available for any of the ingredients.

# STOT – single exposure:

No statements available for any of the ingredients.

#### **STOT – repeated exposure:**

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No statements available for any of the ingredients.

#### **Aspiration hazard:**

May be fatal if swallowed and enters airways.

#### Likely route(s) of exposure:

Skin exposure and eye exposure are the most likely to occur. Accidental ingestion is also possible.

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **General information:**

No statements available for any of the ingredients

### 12.1 Toxicity

64742-49-0 / 426260-76-6 / 64742-89-8:

Toxicity to fish:

LC50 (Carassius auratus (goldfish)): 4 mg/l

Exposure time: 24 h

Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 1.5 mg/l

Exposure time: 48 h Test Type: static test

Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae:

EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l

Exposure time: 96 h Test Type: static test

#### 12.2 Persistence and degradability

#### Physical- and photochemical elimination:

No statements available for any of the ingredients.

**Biodegradation:** 

Biodegradation: 74.30 %

# 12.3 Bioaccumulative potential

log Pow: 2.13 - 4.85 (25 °C)

#### 12.4 Mobility in soil

#### **Known/Predicted environmental distribution:**

No statements available for any of the ingredients.

#### Surface tension:

No statements available for any of the ingredients.

#### Adsorption/Desorption:

No statements available for any of the ingredients.

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#### 12.5 Results of PBT and vPvB assessment

This product does not contain components which are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

No statements available for any of the ingredients.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### **Product:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

#### Waste material:

Dispose according to Federal, State, Provincial and Local regulations.

# **SECTION 14: TRANSPORT INFORMATION**

14.1 UN number

ADR/RID/IDMG/IATA: UN 1206

14.2 UN proper shipping name

ADR/RID/IDMG/IATA: HEPTANES

14.3 Transport hazard class(es)

ADR/RID/IDMG/IATA: 3

14.4 Packing group

ADR/RID/IDMG/IATA: II

14.5 Environmental hazards

ADR/RID/IDMG/IATA: Yes

14.6 Special precautions for user

No statements available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable, as product is not shipped in bulk.

# **SECTION 15: REGULATORY INFORMATION**

#### **International Inventories**

TSCA: Complies

DSL: All components are listed either on the DSL or NDSL.

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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List.

#### **US Federal Regulations**

**SARA 313**: Toluene is subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

#### SARA 311/312 Hazard Categories

Acute health hazard: Yes Chronic Health Hazard: Yes

Fire hazard: Yes

Sudden release of pressure hazard: No

Reactive Hazard: No

#### **CWA (Clean Water Act)**

C9-C11 isoalkanes and toluene are hazardous substances.

#### **CERCLA**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Toluene	108-88-3	1000	*
**Benzene	71-43-2	10	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

# **U.S. State Regulations**

# California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

WARNING. This product can expose you to chemicals including \*\*Cumene, \*\*Benzene, \*\*Ethylbenzene, \*\*Naphthalene, which is/are known to the State of California to cause cancer, and \*\*Toluene, \*\*Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm.

#### Canada

#### **WHMIS Hazard Class**

Not determined.

#### **SECTION 16: OTHER INFORMATION**

#### **Further information**

The information presented in this Safety Data Sheet (SDS) is accurate to the best of our knowledge at the date of publication. The information given within the SDS is meant solely as a guide for safe handling, use, transportation, processing, storage, release and disposal. In no means can the information within the SDS be considered as a warranty or specification for quality.