



**HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS**

EC number 920-750-0

Pictogram



Signal word Danger

Hazard statements

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.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Product name HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS  
 REACH registration number 01-2119473851-33  
 EC number 920-750-0

Composition comments

The data shown are in accordance with the latest EC Directives.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion**

Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**

Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

## HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

### General information

May cause nausea, headache, dizziness and intoxication. Convulsions. Central nervous system depression.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

Treat according to symptoms:

---

## SECTION 5: Firefighting measures

---

### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards

Oxides of the following substances: Carbon. The product is highly flammable. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

### 5.3. Advice for firefighters

#### Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Earth container and transfer equipment to eliminate sparks from static electricity.

#### Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## SECTION 6: Accidental release measures

---

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

In case of spills, beware of slippery floors and surfaces. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes. Provide adequate ventilation.

### 6.2. Environmental precautions

#### Environmental precautions

Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

#### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

---

## SECTION 7: Handling and storage

---

### 7.1. Precautions for safe handling

#### Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Avoid handling which leads to dust formation. Storage tanks and other containers must be earthed. Keep away from heat, sparks and open flame.

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

#### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Keep container tightly closed.

#### Storage class

## HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Flammable liquid storage.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### Ingredient comments

No exposure limits known for ingredient(s).

DNEL	Industry - Dermal; : 773 mg/kg/day
	Industry - Inhalation; : 2035 mg/m <sup>3</sup>
	Consumer - Dermal; : 699 mg/kg/day
	Consumer - Inhalation; : 608 mg/m <sup>3</sup>
	Consumer - Oral; Long term : 699 mg/kg/day

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

Wear rubber apron. Wear rubber footwear.

#### Hygiene measures

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### Respiratory protection

No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Clear liquid.

#### Colour

Colourless.

#### Odour

Slight.

#### Initial boiling point and range

90 - 165°C @

#### Flash point

**HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS**

< 10°C

**Evaporation rate**

1.4 (diethyl ether = 1)

**Upper/lower flammability or explosive limits**

Lower flammable/explosive limit: 0.6 Upper flammable/explosive limit: 7.0

**Vapour pressure**

2 kPa @ °C

**Vapour density**

>1

**Relative density**

0.711 - 0.781 @ @ 15°C

**Bulk density**

710 - 780 kg/m<sup>3</sup>

**Solubility(ies)**

Insoluble in water.

**Auto-ignition temperature**

>200°C

**Viscosity**

0.5 cSt @ 20°C

**9.2. Other information****Molecular weight**

108

---

**SECTION 10: Stability and reactivity**

---

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability****Stability**

Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions**

Not determined.

**10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

**10.5. Incompatible materials****Materials to avoid**

Strong oxidising agents.

**10.6. Hazardous decomposition products**

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

---

**SECTION 11: Toxicological information**

---

**11.1. Information on toxicological effects****Acute toxicity - oral****Acute toxicity oral (LD50 mg/kg)**

5,000

**Species**

Rat

OECD 401

**HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS****Acute toxicity - dermal****Acute toxicity dermal (LD50 mg/kg)**

2800

**Species**

Rat

OECD 402

**Acute toxicity - inhalation****Acute toxicity inhalation (LC50 vapours mg/l)**

23.3

**Species**

Rat

OECD 403

**ATE inhalation (vapours mg/l)**

23.3

**Inhalation**

Dust in high concentrations may irritate the respiratory system.

**Ingestion**

May cause discomfort if swallowed.

**Skin contact**

Powder may irritate skin.

**Eye contact**

Particles in the eyes may cause irritation and smarting.

---

**SECTION 12: Ecological Information**

---

**Ecotoxicity**

The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**12.1. Toxicity****Acute toxicity - fish**LC50, 96 hours: > 13.4 mg/l, *Onchorhynchus mykiss* (Rainbow trout)**Acute toxicity - aquatic invertebrates**EC<sub>50</sub>, 48 hours: 3 mg/l, *Daphnia magna***12.2. Persistence and degradability****Persistence and degradability**

The product is readily biodegradable.

**12.3. Bioaccumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil****Mobility**

The product is insoluble in water.

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

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

Not known.

## HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### General information

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

##### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

Road transport notes                      SPECIAL PROVISIONS 640D

#### 14.1. UN number

UN No. (ADR/RID)                      3295

UN No. (IMDG)                          3295

UN No. (ICAO)                          3295

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)      HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, OCTANES)

Proper shipping name (IMDG)          HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, OCTANES)

Proper shipping name (ICAO)          HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, OCTANES)

Proper shipping name (ADN)          HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, OCTANES)

#### 14.3. Transport hazard class(es)

ADR/RID class                              3

ADR/RID subsidiary risk

ADR/RID label                              3

IMDG class                                  3

IMDG subsidiary risk

ICAO class/division                      3

ICAO subsidiary risk

Transport labels

#### 14.4. Packing group

ADR/RID packing group                  II

IMDG packing group                      II

ICAO packing group                      II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Yes.

**HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS****14.6. Special precautions for user**

EmS	F-E, S-D
Emergency Action Code	3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

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

Cat X

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). This product may impact SEVESO storage regulations.

**Guidance**

CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**SECTION 16: Other information****Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date	21/01/2011
Revision	01
SDS number	23097
SDS status	Approved.
Signature	Jitendra Panchal

**Risk phrases in full**

R11 Highly 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.

**Hazard statements in full**

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.