



H336 H361 H373	May cause drowsiness or dizziness Suspected of damaging fertility or the unborn child [effect, route] May cause damage to organs [organs] through prolonged or repeated exposure [route]
H225	Highly flammable liquid and vapor

**Precautionary statement(s)**

P201 P202 P260 P261 P271 P302+P352 P304+P340 P332+P313 P362+P364 P403+P233 P210 P233 P240 P241 P242 P243 P280 P303+P361+P353  P370+P378 P403+P235 P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. IF ON SKIN: Wash with plenty of water/... IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  In case of fire: Use ... to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container to ...
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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Hazardous components**

Component	Concentration
<b>N-HEXANE (CAS no.: 110-54-3; EC no.: 203-777-6; Index no.: 601-037-00-0)</b>	<b>&gt; 60 - &lt; 80 % (weight)</b>
CLASSIFICATIONS: Flammable liquids, Cat. 2; Toxic to reproduction, Cat. 2; Aspiration hazard, Cat. 1; Specific target organ toxicity (single exposure), Cat. 3; Specific target organ toxicity (repeated exposure), Cat. 2; Skin corrosion/irritation, Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: 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; H361f - ; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]; H411 - Toxic to aquatic life with long lasting effects.	

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### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
If inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

In case of skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If swallowed	Rinse mouth. Do NOT induce vomiting. Fatal if swallowed. Immediately call a poison center or doctor/physician.

**4.2 Most important symptoms/effects, acute and delayed**

Potentially fatal if swallowed.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

No data available

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**SECTION 5: Fire-fighting measures****5.1 Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide. Water fog. Sand.  
Unsuitable extinguishing media: Do not use a heavy water stream.

**5.2 Specific hazards arising from the chemical**

Do not use a heavy water stream.

**5.3 Special protective actions for fire-fighters**

Highly flammable liquid and vapor.

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**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 naked lights. No smoking.

**6.3 Methods and materials for containment and cleaning up**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

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

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapors.

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

### 8.1 Control parameters

#### 1. n-Hexane (CAS: 110-54-3)

PEL (Inhalation): 500 ppm (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 1800 mg/m<sup>3</sup> (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 50 ppm (Cal/OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 50 ppm (NIOSH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 8.2 Appropriate engineering controls

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Safety glasses. Protective clothing. Gloves.

#### Skin protection

Skin Protection: None required with normal household use. Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

#### Respiratory protection

No special precautions for casual exposure. Ventilation Local Exhaust: None required with normal consumer use. Special: None. Industrial (General): Normal/general dilution ventilation is acceptable. Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid/Clear
Odor	Similar to gasoline
Odor threshold	No information available
pH	No information available
Melting point/freezing point	-95 C (-139 F)
Initial boiling point and boiling range	No information available
Flash point	-23 C (-14.8 F)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability limits	No information available
Vapor pressure	No information available

Vapor density  
Relative density  
Solubility(ies)

Partition coefficient: n-octanol/water  
Auto-ignition temperature  
Decomposition temperature  
Viscosity  
Explosive properties  
Oxidizing properties

No information available  
No information available

\*SOLUBILITIES:

WATER : <1 mg/mL @ 16.5 C (RAD)

No information available  
No information available  
No information available  
No information available  
No information available  
No information available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts exothermically with (strong) oxidizers.

### 10.2 Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3 Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5 Incompatible materials

Strong oxidizers.

### 10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Fatal if swallowed.

#### Skin corrosion/irritation

Not classified

#### Serious eye damage/irritation

Causes serious eye irritation

#### Respiratory or skin sensitization

Not classified

#### Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Not classified.

**Reproductive toxicity**

Suspected of damagin fertility

**STOT-single exposure**

Causes damage to organs.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

May be fatal if swallowed and enters airways.

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**SECTION 12: Ecological information****Toxicity**

No data available on product

**Persistence and degradability**

No data available on product

**Bioaccumulative potential**

No data available on product

**Mobility in soil**

No data available

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**SECTION 13: Disposal considerations****Disposal of the product**

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

**Other disposal recommendations**

Handle empty containers with care because residual vapors are flammable.

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**SECTION 14: Transport information****DOT (US)**

UN Number: 1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquids, n.o.s.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question****California Prop. 65 components**

Chemical name: N-HEXANE

CAS number: 110-54-3  
12/15/2017 - Male reproductive toxicity

**Canadian Domestic Substances List (DSL)**

Chemical name: Hexane  
CAS: 110-54-3

**Massachusetts Right To Know Components**

Chemical name: Hexane  
CAS number: 110-54-3

**New Jersey Right To Know Components**

Common name: n-HEXANE  
CAS number: 110-54-3

**Pennsylvania Right To Know Components**

Chemical name: Hexane  
CAS number: 110-54-3

**15.2 Chemical Safety Assessment**

NFPA health hazard: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity: 0 - Material that in themselves are normally stable, even under fire conditions.

**HMIS Rating**

Tire Shine	
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

**NFPA Rating**