

Material Safety Data Sheet

Octane

MSDS# 182560

Section 1 - Chemical Product and Company Identification

MSDS Name: Octane
Catalog Numbers: V308 -1
Synonyms: n-Octane.

Company Identification: Dongying Liangxin Petrochemical

Technology Development Company Limited

For information in China, call:

+86 178 1030 0898

Emergency Number China:

Add: #117, Guangging Rd., Guangrao County,

Dongying, Shandong, China

Section 2 - Composition, Information on Ingredients

CAS#: 111-65-9
Chemical Name: Octane
%: >99

EINECS#: 203-892-1

Hazard Symbols: XN F N







Risk Phrases:

11 38 50/53 65 67

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. Aspiration hazard if swallowed. Can enter lungs and cause damage. Breathing vapors may cause drowsiness and dizziness. Causes eye, skin, and respiratory tract irritation. Target Organs: Central nervous system.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact

may cause defatting of the skin and dermatitis.

Aspiration hazard. May cause central nervous system depression, characterized by excitement, followed by

Ingestion: headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and

possible death due to respiratory failure. Aspiration of material into the lungs may cause chemical pneumonitis,

which may be fatal.

Inhalation: Causes respiratory tract irritation. May cause narcotic effects in high concentration.

Chronic: Prolonged or repeated skin contact may cause defatting and dermatitis.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid

if irritation develops and persists. Wash clothing before reuse.

Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to

Ingestion: do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs

naturally, have victim lean forward.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation:

Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Flammable

liquid and vapor. May accumulate static electrical charges, and may cause ignition of its own vapors. General Information:

Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along

the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of

ignition and spread fire.

Extinguishing Media:

Use foam, dry chemical, or carbon dioxide. Water may be ineffective. Water may spread fire.

Autoignition 206 deg C (402.80 deg F) Temperature:

Flash Point: 13 deg C (55.40 deg F)

Explosion 1.0 Limits: Lower:

Explosion 6.5 Limits: Upper:

NFPA Rating: health: 1; flammability: 3; instability: 0;

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof Handling: equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Do not pressurize, cut, weld, braze,

solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area Storage: away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	+	NIOSH	
Octane 	300 ppm 	75 ppm TWA; 350 mg/m3 TWA 1000 ppm IDLH (10% LEL)	500 ppm TWA;

OSHA Vacated PELs: Octane: 300 ppm TWA; 1450 mg/m3 TWA

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Wear appropriate protective clothing to prevent skin exposure. Clothing:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear, colorless

Odor: mild odor - gasoline-like

pH: Not available

Vapor Pressure: 11 mm Hg @ 20 deg C

Vapor Density: 3.9 (air=1)

Evaporation Rate: 0.6 (butyl acetate=1)

Viscosity: Not available Boiling Point: 124-127 deg C

Freezing/Melting Point: -57 deg C (-70.60°F)

Decomposition Temperature: Not available

Solubility in water: Insoluble

Specific Gravity/Density: 0.708

Molecular Formula: C8H18 Molecular Weight: 114.23

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, excess heat.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 111-65-9: RG8400000

RTECS:

LD50/LC50: CAS# 111-65-9: Inhalation, rat: LC50 = 118 gm/m3/4H;

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Carcinogenicity: Octane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Water flea EC50 = 0.38 mg/L; 48 Hr.; Unspecified Conditions

Ecotoxicity: Water field EC30 = 0.38 filg/L, 48 ffr., Offspecified Conditions

Bacteria: Phytobacterium phosphoreum: EC50 = 890 mg/L; 30 minutes; Microtox test

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: OCTANES

Hazard Class: 3

UN Number: UN1262 Packing Group: II Canada TDG

Shipping Name: OCTANES

Hazard Class: 3

UN Number: UN1262 Packing Group: II

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F N

Risk Phrases:

R 11 Highly flammable.

R 38 Irritating to skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

- S 9 Keep container in a well-ventilated place.
- S 16 Keep away from sources of ignition No smoking.
- S 29 Do not empty into drains.
- S 33 Take precautionary measures against static discharges.
- S 60 This material and its container must be disposed of as hazardous waste.
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 111-65-9: 1

Canada

CAS# 111-65-9 is listed on Canada's DSL List Canadian WHMIS Classifications; B2, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 111-65-9 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 111-65-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 6/08/2019 Revision #7 Date 7/20/2020

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
