

# Product Safety Summary



## EXXSOL™ HEXANE

This Product Safety Summary document is a high-level summary intended to provide the general public with an overview of product safety information on this chemical substance. It is not intended to provide emergency response, medical or treatment information, or to provide a discussion of all safety and health information. This document is not intended to replace the Safety Data Sheet. Warnings and handling precautions provided below are not intended to replace or supersede manufacturers' instructions and warning for their consumer products which may contain this chemical substance.

### 1. Chemical Identity

Exxsol™ Hexane is characterized as a complex mixture of aliphatic hydrocarbons obtained by hydrogenation of a petroleum fraction that consists primarily of normal, isoparaffinic, and cycloparaffinic C6 hydrocarbons. Aromatic hydrocarbon content is less than 0.01% weight.

**CAS No:** 64742-49-0

**Chemical Name:** Naphtha (petroleum), hydrotreated light

**EC No:** 925-292-5

**Chemical Name:** Hydrocarbons, C6, n-alkanes, isoalkanes, cyclics, n-hexane rich

The EC # applies in REACH countries while the CAS number is the identifier in the rest of the world.

### 2. Product Uses

Exxsol Hexane is a liquid solvent used in industrial processes e.g. polymerization and production of (pharmaceutical) chemicals. It can also be used in food contact applications such as a solvent for oil seed extraction.

### 3. Physical / Chemical Properties

Exxsol Hexane is a highly flammable material primarily used in industrial settings. It has a high vapor pressure, and should be handled only with adequate ventilation and in areas without any ignition source present (e.g. no open flames, static electricity sources, or unprotected light switches).

The flash point for Exxsol Hexane is approximately -18 °F /-28°C.

### 4. Health Information

Exxsol Hexane is generally recognized to have low acute and chronic toxicity. Vapor or aerosol concentrations above the exposure limit of 85 parts per million (ppm) in the air can cause eye and lung irritation and may cause headaches, dizziness or drowsiness. Prolonged or repeated skin contact in an occupational setting may result in irritation and in these situations, the use of chemical resistant gloves is recommended. Exxsol Hexane Fluid is not regarded as a mutagen or carcinogen.

Exxsol Hexane typically contains 50-60% n-hexane. Prolonged or repeated exposure to n-hexane can cause progressive and potentially irreversible damage to the peripheral nervous system (e.g. fingers, feet, etc.) and has been shown to cause testicular damage in male rats at high doses. The relevance of this effect for humans is unknown.

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### 5. Additional Hazard Information

If accidentally swallowed, small amounts of liquid may be aspirated into the lungs during ingestion or from vomiting which may cause severe lung inflammation and lung edema (an accumulation of fluid in the lungs). This is a medical emergency which must be immediately and properly treated.

### 6. Food Contact Regulated Uses

Appropriate manufacturing and distribution practices are employed to ensure the quality of Exxsol Hexane offered for use as either a direct or indirect food additive.

### 7. Environmental Information

Exxsol Hexane is toxic to the aquatic environment.. If accidentally spilled in the environment, it is potentially a threat to the environment due to moderate toxicity to aquatic organisms (e.g. fish and invertebrates). Exxsol Hexane is readily biodegradable and will not persist in the environment. Because of its low solubility in water and volatility (tendency to move from water to air) chronic aquatic toxicity is not expected, however a significant spill may cause long-term adverse effects in the aquatic environment. Exxsol Hexane is a volatile organic compound (VOC) and is rapidly degraded in air, water, and soil. Considerable measures are taken to prevent its release to the atmosphere and minimize any exposure to the environment from manufacturing and use activities.

### 8. Exposure Potential

- **Workplace exposure** – This refers to potential exposure in a manufacturing facility or through evaporation in various industrial applications. Generally, exposure of personnel in manufacturing facilities is relatively low because the process, storage and handling operations are enclosed. The ExxonMobil recommended occupational exposure limit (OEL) is 85 ppm per 8-hour work day.
- **Consumer use of products containing Exxsol Hexane** –This chemical is not sold directly to the public for general consumer uses. If exposure should occur, it is likely to be infrequent and of short duration depending on the products used and the conditions under which they are used. The best way to prevent exposure to vapors is to work in well-ventilated areas, wear chemical resistant gloves, and follow good personal hygiene practices.
- **Environmental releases** – As a chemical manufacturer, we are committed to operating in an environmentally responsible manner everywhere we do business. Our efforts are guided by in-depth scientific understanding of the environmental impact of our operations, as well as by the social and economic needs of the communities in which we operate. Industrial spills or releases are rare; however a spill may pose a significant flammability issue. Our operational improvement targets and plans are based on driving incidents with real environmental impact to zero and delivering superior environmental performance.

### 9. Manufacture of Product

- **Process** – Exxsol Hexane is produced from petroleum-based raw materials (e.g. naphtha) which are treated with hydrogen in the presence of a catalyst to produce a low aromatic solvent.

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### 10. Risk Management

- **Workplace Risk Management** – When using this substance or products which contain this substance, make sure that there is adequate ventilation. Always use chemical resistant gloves to protect your hands and skin and always wear eye protection such as chemical goggles. Do not eat, drink, or smoke where this substance is handled, processed, or stored. Wash hands and skin following contact. If this substance gets into your eyes, rinse eyes thoroughly for at least 15 minutes with tap water and seek medical attention. Please refer to the Safety Data Sheet.
- **Consumer Risk Management** - This product is not sold directly to the public for general consumer uses. If exposure should occur, it is expected to be infrequent and of short duration. Always follow manufacturers' instructions, warnings and handling precautions when using their products. The best way to minimize exposure to vapors is to work in well-ventilated areas.

### 11. Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of this product and may vary by city, state, country or geographic region. Additional helpful information may be found by consulting the relevant ExxonMobil Safety Data Sheet at:

- <http://www.msds.exxonmobil.com>

### 12. Conclusion Statements

Exxsol Hexane . . .

- is a widely used industrial, professional, and consumer products solvent.
- is low in toxicity; however it may cause lung damage if swallowed.
  - Overexposure to n-hexane may cause effects on the peripheral nerves, resulting in weakness or numbness of extremities.
  - Is classified as a reproductive toxicant, though relevance to humans of effects observed in experimental animals is unknown.
- does not cause adverse health or environmental effects at levels typically found in the workplace or environment.
- is flammable; use only with good ventilation; avoid all ignition sources.

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