

Varsol™ 120 Fluid

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 Material 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

Varsol 120 Fluid is a refinery stream obtained from the distillation of crude oil, followed by the removal of sulfur (a process called *hydrodesulfurization*).

Chemical Name: Hydrocarbons C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)

2. Product Uses

Varsol is the ExxonMobil Chemical brand for a line of conventional aliphatic fluid solvents used in industrial, professional, and consumer products applications. Varsol 120 Fluid is composed primarily of saturated aliphatic and cyclic hydrocarbons (maximum aromatic content 30%) in the boiling range of approximately 230 - 320 °C. It is not sold directly to the public for general consumer uses, however, it may be an ingredient in consumer and commercial product applications such as:

- Solvent Applications
- Use as Cleaning Agents
- Fuels and Fuel Additives
- Lubricants
- Paints, Coatings, Resins
- Mining / Drilling

3. Physical / Chemical Properties

Varsol 120 Fluid should be handled only with adequate ventilation and in areas where ignition sources have been removed (e.g. open flames, static electricity sources, unprotected light switches). The flash point is >100°C.

4. Health Information

Varsol 120 Fluid is generally recognized to have low acute toxicity if ingested, inhaled or after skin contact and a low risk for chronic toxicity. Concentrations above the occupation exposure limit of 34 ppm in the air can cause eye, nose, throat, and lung irritation in humans. Symptoms of over exposure may include flushing, headache, dizziness, central nervous system (CNS) depression, nausea, vomiting, anesthesia, and coma. If this occurs, seek immediate medical attention. Repeated dermal exposure may cause skin dryness and cracking. Varsol 120 Fluid is not regarded as a mutagen, a carcinogen, or a concern for chronic reproductive or developmental effects. High vapor concentrations may cause drowsiness and dizziness and may cause CNS depression, but it is not expected to have any neurotoxic effects beyond acute CNS depression.

5. Additional Hazard Information

If accidentally swallowed, small amounts of liquid may be aspirated into the lungs during ingestion or from vomiting. This 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.

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6. Food Contact Regulated Uses

This product is not claimed as compliant for food contact uses.

7. Environmental Information

Varsol 120 Fluid, if accidentally spilled in the environment, is not expected to be a threat to the environment due to its low toxicity to aquatic organisms (e.g. fish and invertebrates). It is expected to biodegrade at a rapid rate 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. It 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

Based on the uses for Varsol 120 Fluid, the public could be exposed through:

- **Workplace exposure** – This refers to potential exposure in a manufacturing facility or through use 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) value is approximately 34 parts per million (ppm) per an 8-hour work day.
- **Consumer use of products containing Varsol 120 Fluid** – This category of exposure is highly variable depending on the products used and the conditions under which they are used. It is not sold directly to the public for general consumer uses. Exposure may occur, however, as a result of its use in commercial cleaning, coating, or fuel additive applications. If exposure should occur, it is likely to be infrequent and of short duration. The best way to prevent exposure to vapors is to work in well-ventilated areas.
- **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** – Produced from straight-run naphtha and straight-run kerosene, which are refinery streams obtained from the distillation of crude oil, followed by the removal of sulfur (a process called *hydrodesulfurization*). Processes and equipment for manufacture, transfer and storage are continuous and enclosed.

10. Risk Management

- **Workplace Risk Management** – When using 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 chemical is handled, processed, or stored. Wash hands and skin following contact. If this substance gets into

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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 chemical 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 prevent exposure to vapors is to work in well-ventilated areas. Where the substance is sold along with or for use in lamp oils and grill lighters by the general public:
 - Keep lamps filled with this liquid out of the reach of children.
 - Just a sip of lamp oil, or even sucking the wick of lamps, may lead to life threatening lung damage.

11. Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of this chemical 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/psims/psims.aspx?brand=xomcc>

12. Conclusion Statement

Varsol 120 ...

- is a widely used industrial, paint, and process solvent.
- is low in toxicity, however, it may cause lung damage if swallowed.
- does not cause adverse health or environmental effects at levels typically found in the workplace or environment.
- should only be used with good ventilation; avoid all ignition sources.

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