Product Safety Summary

ISOPAR™ L FLUID

This Product Safety Summary document is to provide product safety and end use information on this product. 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.

1. Chemical Identity

Isopar™ L Fluid is characterized as a synthetic isoparaffinic hydrocarbon solvent. The major components are isoparaffins. The product contains very low levels of aromatic hydrocarbons and is essentially odorless and colorless.

CAS Nos. 64742-48-9 or 90622-58-5 Isopar L Fluid **Abbreviation**: None

2. Product Uses

Isopar L Fluid is a liquid solvent used in paints & coatings, consumer products, printing inks, and agricultural chemical applications. Isopar L Fluid may also be used in food contact applications such as aluminum rolling and manufacture of paper and paperboard. Consumer and commercial applications include:

- Paints
- Odorless coatings
- Printing inks
- Insecticide diluents
- Polishes
- Cleaners
- Process fluids
- PVC plastisols/organosols
- Waterless hand cleaners
- Pesticide inert ingredient
- Cleaning solvents for food handling equipment
- Adhesives
- Air fresheners
- Modifiers for non-impact printing inks
- Textile fiber finishing lubricants
- Defoamers in paper manufacture

3. Physical / Chemical Properties

Isopar L Fluid is a combustible material, has a relatively high vapor pressure, and 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 for ISOPAR L FLUID is 144ºF /62ºC.

4. Health Information

Isopar L Fluid has been studied extensively and is generally recognized to have low acute and chronic toxicity if ingested and/or breathed. Vapor or aerosol concentrations above the exposure limit of 171 ppm in the air can cause eye and lung irritation in humans and may cause dizziness or drowsiness. Prolonged or repeated skin contact may result in irritation and in these situations, the use of chemical resistant gloves is recommended. Isopar L Fluid is not regarded as a mutagen, a carcinogen, a teratagen or a concern for reproductive, developmental, or nervous system toxic effects.

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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, 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.

6. U.S. Food and Drug Administration (FDA) Regulated Uses

Appropriate manufacturing and distribution practices are employed to ensure the quality of Isopar L Fluid offered for use in either direct or indirect additives to food according to applications and restrictions of the U.S. FDA. Isopar L Fluid is registered as an H1 lubricant for incidental food contact by National Sanitation Foundation (NSF) for use in food production and processing plants.

7. Environmental Information

Isopar L Fluid biodegrades at a moderate rate and does not persist in the environment. It is not expected to cause short-term toxicity to fish or other aquatic organisms. Because of its low solubility in water and volatility (tendency to move from water to air) chronic aquatic toxicity is not expected.

8. Exposure Potential

Based on the uses for Isopar L Fluid, the public could be exposed through:

- **Workplace exposure** – This refers to potential exposure to Isopar L Fluid in a manufacturing facility or through evaporation in various industrial applications. Generally, exposure to Isopar L Fluid 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 171 parts per million (ppm) per an 8-hour work day.
- **Consumer use of products containing Isopar L Fluid** – This category of exposure is highly variable depending on the products used and the conditions under which they are used. Exposure of the majority of consumers to commercial Isopar L Fluid sources is likely to be infrequent and of short duration. Exposure could occur through the use of Isopar L Fluid in paints, bug sprays, or waterless hand cleaners. The best way to prevent exposure to vapors is to work in well-ventilated areas.
- **Environmental releases** – Chemical manufacturers 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

- **Capacity** – Publicly available sources report total U.S. production capacity for this type of solvent product exceeded 1 billion pounds in 2005.
- **Process** – Isopar L Fluid is produced from chemically synthesized petroleum-based raw materials which are treated with hydrogen in the presence of a catalyst to produce a relatively pure, low odor isoparaffinic solvent.

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10. Risk Management

When using Isopar L Fluid or products which contain Isopar L Fluid, 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 Isopar L Fluid is handled, processed, or stored. Wash hands and skin following contact. If Isopar L Fluid gets into your eyes, rinse eyes thoroughly for at least 15 minutes with tap water and seek medical attention.

Although Isopar L Fluid is not a hazardous air pollutant, it is a volatile organic compound (VOC). Considerable measures are taken to prevent its release to the atmosphere. Processes and equipment for manufacture, transfer and storage are continuous and enclosed.

11. Federal/Science Agency Findings (For CAS No. searches, enter 64742-48-9)

Organization for Economic Cooperation and Development (OECD) - ChemPortal web-based search tool

- http://webnet3.oecd.org/echemportal/

European Chemical Substances Information System (ESIS)

- http://ecb.jrc.it/esis/

Organization for Economic Cooperation and Development (OECD) Integrated HPV Database

- http://cs3-hq.oecd.org/scripts/hpv/

U.S. Environmental Protection Agency - High Production Volume Information System (HPVIS)

- http://www.epa.gov/hpv/

12. Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of Isopar L Fluid. These regulations may vary by city, state, country or geographic region. Additional helpful information may be found by consulting the relevant Material Safety Data Sheet.

13. Conclusion Statements

- Isopar L Fluid is a widely used industrial solvent.
- Isopar L Fluid is low in toxicity; however it may cause lung damage if swallowed.
- Isopar L Fluid does not cause adverse health or environmental effects at levels typically found in the workplace or environment.
- Isopar L Fluid is combustible; use only with good ventilation; avoid all ignition sources.