# **Product Safety Summary**



**PENTAMER** 

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

CAS No.: 68514-35-2 Chemical Name: Hydrocarbons, C14-30, olefin-rich

#### 2. Product Uses

Higher olefins are reactive intermediates used to manufacture products used in lube oil additives, surfactants, agricultural chemicals, coatings and corrosion inhibitors

### 3. Physical / Chemical Properties

Pentamer is a clear to light colored liquids with a slight petroleum smell.

The flash point for Pentamer is approximately 208°F / 98C.

#### 4. Health Information

Pentamer is considered minimally toxic for all routes of exposure (inhalation, ingestion, skin). Contact with the skin may cause drying leading to discomfort and dermatitis. Contact with the eyes may cause mild, short lasting discomfort. Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

## 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

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

#### 7. Environmental Information

Pentamer released to the environment is expected to partition largely to the soil and sediment. It is insoluble in water and so is not expected to pose acute or chronic toxicity risk to aquatic organisms. Based on read-across from similar substances and modeled data, pentamer is expected to be readily biodegradable and not persist in the environment. Pentamer is not expected to bioaccumulate.

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### 8. Exposure Potential

Based on the uses for Pentamer, the public could be exposed through:

- Workplace exposure This refers to potential exposure to Pentamer in a manufacturing facility or through evaporation in various industrial applications. Generally, exposure to Pentamer 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 350 mg/m3 per 8hour work day.
- Consumer use of products containing Pentamer Exposure of the majority of consumers is not
  expected due to the primary use of Pentamer as an industrial chemical intermediate. It is not sold
  directly to the public for general consumer uses.
- 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 by the oligomerization of lighter olefins

## 10. Risk Management

- Workplace Risk Management When using Pentamer, 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 Pentamer is handled, processed, or stored. Wash hands and skin following contact. If Pentamer 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 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.

# 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

### 12. Conclusion Statements

### Pentamer is:

- a used as an industrial chemical intermediate
- is low in toxicity; however it may cause lung damage if swallowed.

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#### **PENTAMER**

- 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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