

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

Pyrolysis gasoline (Pygas) is a complex mixture of olefins, diolefins, and aromatics predominately described as:

CAS Number: 68477-58-7: Distillates, Petroleum, Steam-Cracked Petroleum Distillates, C5-C18

2. Product Uses

Used as a feedstock in the chemical industry.

3. Physical / Chemical Properties

Pygas is a flammable liquid with a flash point -10C (-12F)

4. Health Information

Pygas 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. Prolonged and/or repeated skin contact may defat the skin resulting in possible irritation and dermatitis. If ingested, material may be aspirated into the lungs and cause pneumonitis.

5. Additional Hazard Information

Pygas contains n-hexane and benzene. N-hexane may cause effects on the peripheral nerves, resulting in weakness or numbness of lower limbs. Exposure to benzene is associated with cancer (acute myeloid leukemia and myelodysplastic syndrome), damage to the blood-producing system, and serious blood disorders. Very high exposure (confined spaces / abuse) to light hydrocarbons may result in abnormal heart rhythm (arrhythmias).

6. Food Contact Regulated Uses

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

7. Environmental Information

In the environment, Pygas will be toxic to aquatic organisms (e.g., to fish, invertebrates, algae), and may cause long-term adverse effects in the aquatic environment. The majority of the hydrocarbon components are expected to be rapidly or inherently biodegradable. Although some components have the potential to bioaccumulate, metabolism is expected to minimize this occurrence in aquatic and terrestrial organisms. Due to high volatility, residual concentrations in environmental media may be short lived, and chronic toxicity is not expected. The constituents of this product are expected to degrade at a rapid rate in

air through oxidation processes. Measures should be taken to prevent its release to the atmosphere and minimize any exposure to the environment from manufacturing or 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.
- **Consumer exposure** – The general population would not be exposed to Pygas
- **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 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 as by-product from the cracking of ethane, propane, butane, naphtha or gasoil to ethylene.

10. Risk Management

- **Workplace Risk Management** – When using this product, 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 chemicals are handled, processed, or stored. Wash hands and skin following contact. If this product gets into your eyes, flush eyes thoroughly with tap water. If irritation occurs, get medical assistance. Please refer to the (Material) Safety Data Sheet.
- **Consumer Risk Management** - This chemical is not sold by ExxonMobil directly to the public for general consumer uses.

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

Pygas is :

- is a chemical intermediate used in industrial reactions.
- is not sold by ExxonMobil directly to consumer uses

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