

## Neo Decanoic Acid

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.**

26896-20-8

**Chemical Name:**

Neodecanoic Acid

### 2. Product Uses

Neodecanoic Acid is used primarily as an intermediate to make other chemical products. For example, metal salts of Neodecanoic Acid can be used in a variety of applications such as paint driers, PVC stabilizers, or catalysts. The derived peroxides are used as polymerization initiators. Ester derivatives of Neodecanoic Acid are used in surface coatings. In its neutralized form, Neodecanoic Acid is used in metalworking fluids.

### 3. Physical / Chemical Properties

Neodecanoic Acid is a liquid with a relatively low vapor pressure; however elevated temperatures and mechanical action may form vapors, mist, or fumes. Material 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  $>100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).

### 4. Health Information

Neodecanoic Acid has been adequately studied and is generally recognized to have low acute toxicity if ingested and/or breathed. Vapor concentrations (above  $25\text{ mg/m}^3$ ) and stable aerosol concentrations (above  $5\text{ mg/m}^3$ ) in the air can cause eye, nose, throat, and lung irritation in humans. It is not regarded as a mutagen, a carcinogen, or a concern for reproductive, developmental, or nervous system toxic effects.

### 5. Additional Hazard Information

Harmful if swallowed. Repeated dermal exposure may cause skin dryness and cracking.

### 6. Food Contact Regulated Uses

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

### 7. Environmental Information

Neodecanoic Acid is soluble in water and, if spilled, is expected to remain largely in water. If released to the environment, this material is not expected to cause toxicity to fish or other aquatic organisms. Biodegradation has been shown to occur at a slow rate.

### 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 occupational exposure limit (OEL) value is 25 mg/m<sup>3</sup> per an 8-hour work day.
- **Consumer use of products containing Neodecanoic Acid** – This category of exposure is highly variable depending on the products used and the conditions under which they are used. Because Neodecanoic Acid is primarily converted into other chemicals exposure of the majority of consumers to commercial sources is likely to be infrequent and of short duration. 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 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 reacting a branched olefin with carbon monoxide and water at elevated temperatures and pressures in the presence of an acid catalyst.

### 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 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 (Material) Safety Data Sheet at:

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

### 12. Conclusion Statement

Neodecanoic Acid ...

# Product Safety Summary



## Neo Decanoic Acid

- is a widely used chemical intermediate in the production of paints, coatings, and metal salt derivatives.
- is low in acute toxicity; however, repeated dermal exposure may cause skin dryness and cracking.
- does not cause adverse health or environmental effects at levels typically found in the workplace or environment.
- is not combustible and has a low vapor pressure. Use only with good ventilation and avoid all ignition sources.

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