

LTS Research Laboratories, Inc. Safety Data Sheet Vanadium Naphthenate Oxide

1. Product and Company Identification

Trade Name: Vanadium Naphthenate Oxide

Chemical Formula: C44H28O8V

Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 Country: USA

Tel #: 855-587-2436 / 855-lts-chem
24-Hour Emergency Contact: 800-424-9300 (US & Canada)
+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301: Toxic if swallowed

H330: Fatal if inhaled

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H301+H331: Toxic if swallowed or if inhaled

H315: Causes skin irritation H320: Causes eye irritation

Environmental hazards: H410: Very toxic to aquatic life with long-lasting effects

Precautionary Statements: P202: Do not handle until all safety precautions have been read and

understood

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash face, hands, and any exposed skin thoroughly after

handling

P270: Do not eat, drink, or smoke when using this product P271: Use only outdoors or in a well-ventilated area P281: Use personal protective equipment as required

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell. Rinse mouth

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P308+P313: IF exposed or concerned: Get medical advice/attention

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 0

3. Composition Chemical Family: Liquid Additional Names: Naphthenic acids, vanadyl complexes Vanadium Naphthenate Oxide (C44H28O8V): Percentage: 100 wt% CAS #: 68553-60-6 EC #: 271-395-7 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion: Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Non-flammable Flammability: Do not use water for metal fires – use CO₂, sand, extinguishing powder. Extinguishing Media: Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Wear a fully protective impervious suit. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up the spill using a high-efficiency particulate absolute (HEPA) air filter and place it in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in the work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below the

threshold limit.

8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.05 mg/m^3 Threshold Limit Value: N/A Special Equipment: None Respiratory Protection: **Dust Respirator Protective Gloves:** Rubber gloves Safety glasses or goggles Eye Protection: **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color According to product specification Form: Liquid Odor: N/A Water Solubility: Insoluble in water **Boiling Point:** N/A **Melting Point:** N/A Flash Point: N/A Autoignition Temperature: N/A Density: 1.04 g/cm³ (8.679 lbs/gal) Molecular weight: 735.64 g/mol 10. Reactivity N/A Stability: Reacts With: N/A Research **Incompatible Conditions:** N/A Hazardous Decomposition Products: No dangerous decomposition products are known 11. Toxicological Information Potential Health Effects: Causes irritation Eyes: Skin: Causes irritation Very toxic if swallowed Ingestion: Inhalation: Very toxic if inhaled Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: Very toxic for aquatic organisms Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A Water hazard class 1 (Self-assessment): slightly hazardous for water Notes: Do not allow undiluted products or large quantities of them to reach ground water, water course, or sewage system.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Not hazardous for transportation. Hazardous as powder only.



Hazard Class: 6.1 Toxic substances

Packing Group: PG III
UN Number: UN2810

Proper Shipping Name: Toxic, liquids, organic, n.o.s. (Vanadium Naphthenate Oxide)

15. Regulatory Information

Sec 302 Extremely Hazardous:N/ASec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The mandatory regulations mentioned aim to help the user fulfill his obligations regarding the use of hazardous products.

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