Section 1 - Product and Company Information

Product Name: 4-N-Nonylphenol, tech.
Product Number: 290868
Brand: Aldrich Chemical
Company: Sigma-Aldrich
Street Address: 3000 Spruce Street
City, State, Zip: ST. LOUIS, MO 63103 US
Technical Phone: 314-771-5765
Fax: 800-353-5052
Emergency Phone: 414-273-3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name: 4-N-Nonylphenol, mixture of isomers
CAS #: 64852-15-3
SARA 313: No
EC No: 284-325-5
HCN: G15H24O
Synonyms: Nonylphenol, n-Nonylphenol, branched

Section 3 - Hazards Identification

Emergency Overview: Corrosive
Cautions: Burns. Harmful if swallowed.

HMIS Rating:
Health: 3
Flammability: 1
Reactivity: 0

NFPA Rating:
Health: 3
Flammability: 1
Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Section 5 - Fire Fighting Measures

Flash Point: 235°F
Autoignition Temp: N/A
Extinquishing Media: Suitable
Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting:
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill:
Evacuate area.

Procedure(s) of Personal Precaution(s):
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up:
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling:
Use Exposure:
Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure.

Storage:
Suitable:
Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls:
Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment:
Respiratory:
Government approved respirator.
Hand:
Compatible chemical-resistant gloves.
Eye:
Chemical safety goggles.
Other:
Face shield (6-inch minimum).

Aldrich Chemical - 290658
Sigma-Aldrich Corporation
www.sigma-aldrich.com
Section 9 - Physical/Chemical Properties

Appearance
Physical State
Solid

Molecular Weight: 220.36 AMU

pH
N/A

BP/BP Range
N/A

MP/MP Range
N/A

Freezing Point
N/A

Vapor Pressure
N/A

Vapor Density
N/A

Saturated Vapor Conc.
N/A

SG/Density 0.937 g/cm3

Bulk Density
N/A

Odor Threshold
N/A

Volatile%
N/A

VOC Content
N/A

Water Content
N/A

Solvent Content
N/A

Evaporation Rate
N/A

Viscosity
N/A

Partition Coefficient
N/A

Decomposition Temp.
N/A

Flash Point °F
235 °F

Flash Point °C
113 °C

Explosion Limits
N/A

Flammability
N/A

Autoignition Temp
N/A

Refractive Index 1.511

Solubility
N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable

Stable

Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact

Causes burns.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
Causes burns.

Inhalation
May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion
Harmful if swallowed.

Signs and Symptoms of Exposure
Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: SM665000

Toxicity Data

Oral - Rat: 1300 mg/kg (LD50)
Remarks: Liver/Other changes.
Blood: Hemorrhage.
Nutritional and Gross Metabolic Weight loss or decreased weight gain.

Irritation Data

Skin - Rabbit: 500 mg 24H
Remarks: Severe irritation effect

Eyes - Rabbit: 100 mg
Remarks: Severe irritation effect

Chronic Exposure - Reproductive Hazard

Species
Dose
Route of Application
Exposure Time

Rat
4420 mg/kg
Oral (MULTIGENERATION)
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Alkylphane, liquid, n.o.s. ([including C2-C12 homologues])

UN#: 3145

Class: 8

Packing Group: Packing Group II

Hazard Label: Corrosive
Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: C
Indication of Danger
Corrosive.
Risk Statements
R: 34 22
Causes burns. Harmful if swallowed.
Safety Statements
S: 26 27 28 36/39
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and eye/face protection.

US Classification and Label Text
Indication of Danger
Corrosive.
Risk Statements
Causes burns. Harmful if swallowed.
Safety Statements
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and eye/face protection.

United States Regulatory Information
SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.