Carolina International Sales Co., Inc

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440
www.ciscochem.com

MATERIAL SAFETY DATA SHEET

IN CASE OF TRANSPORT EMERGENCY CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

1. PRODUCT NAME: Nonylphenol 9.5

2. CHEMICAL NAME: Nonylphenol Polyethylene Glycol Ether

3. SYNOMYMS: NP 9.5

4. CAS NUMBER: 9016-45-9

5. COMPOSITION: Nonylphenol Polyethylene Glycol Ether
(9016-45-9)
100%

6. PROPERTIES:
ODOR & APPEARANCE: clear, viscous liquid with little or no odor
ODOR THRESHOLD: not known
VAPOUR PRESSURE: below 0.01mmHg/1.33kPa (20 c)
EVAPORATION RATE (butyl Acetate=1): not known – not considered volatile
VAPOR DENSITY (air=1): over 10 – not considered volatile
BOILING RANGE: over 250 c/482 F - decomposes
FREEZING POINT: 5 c/41 F
SPECIFIC GRAVITY: 1.06 (20/20 c)
WATER SOLUBILITY: complete
IN OTHER SOLVENTS: soluble in hydrocarbons, alcohols
VISCOSITY: 240 centipoise (20 c)
PH: 5 – 7.5

7. HAZARDS:
HMIS (U.S.A): Health – 1, Fire – 1, Reactivity - 0
MATERIAL USE: oil soluble, non-ionic surfactant

8. FIRE FIGHTING INFORMATION:
FLASH POINT: 265 c/590 F (closed cup)
AUTOIGNITION TEMPERATURE: not known
FLAMMABLE LIMITS: not known
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments
FIREFIGHTING PRECAUTIONS: foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA
STATIC DISCHARGE: will not accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents, strong acids or alkalies DECOMPOSOTION PRODUCTS: none apart from Hazardous Combustion Products

9. PERSONAL PROTECTION MEASURES:
HANDS: nitrile or “Viton” gloves recommended – consult supplier to confirm suitability
EYES: safety glasses with side shields or chemical goggles – always protect the eyes
VENTILATION: to required unless product mist is created by handling (aeration or vigorous agitation)
CLOTHING: not special clothing required

10. FIRST AID PROCEDURES:
SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.

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INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.
NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protest the lungs.

11. EXPOSURE LIMITS:
TWAEV ppm: not listed
LD50 ORAL: 4000
SKIN (mg/kg): not known
LC50ppm INHALATON: not known* (*Very low toxicity)

12. TOXICOLOGICAL INFORMATION:
EFFECTS ACUTE EXPOSSURE
SKIN CONTACT: little to no effect on brief contact
SKIN ABSORPTION: little absorption on brief contact; prolonged or repeated contact results in absorption
EYE CONTACT: severely irritating, causing redness & swelling – may damage eyes
INHALATION: mist may irritate – causing nasal discharge, chest pain & coughing
INGESTION: may cause stomach discomfort nausea, vomiting & diarrhoea
EFFECTS OF CHRONIC EXPOSURE
GENERAL: prolonged or repeated exposure may cause dermatitis; although no adverse systemic effects have been reported for humans following industrial exposure, prolonged feeding of 1000mg/kg/day of NP-9 did result in enlarged livers & reduces body weight
SENSITISING: not a sensitizer
REPRODUCTIVE EFFECT: no known effect on humans, ~200mg/kg/day of similar product had no effect on rodents despite in vito evidence of estrogen-mimic effects of nonylphenol, ethoxylate, fetotoxic when fed to rodents in maternally toxic doses
SYNERGISTIC WITH: not known
LD50: 4000mg/kg (oral, rat)
LC50: not known

13. ECOLOGICAL INFORMATION:
this product cannot accumulate in living tissue; suitably dispersed and diluted, – this product is readily biodegradeable in the presence of oxygen various tests show ~90% degradation within 2 weeks in river water inoculated with sewage sludge

14. DISPOSAL CONSIDERAIONS:
DO NOT FLUSH TO SEWER; may be incinerated in approved facility after mixing with a flammable product

15. CARCINOGENIC PROPERTIES & NOTIFICATIONS:
Not considered a tumorigen or a carcinogen in humans and animals

16. TRANSPORT INFORMATION:
USA 49 CFR
Product identification number: UN – not regulated for transport
Shipping name: not regulated for transport
Classification: not regulated for transport
Label: not regulated for transport
Class: D B2

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17. HANDLING & STORAGE:	Store and use a cool dry environment, away from sources of ignition, heat and oxidizing agents. If product mist is generated during processing, provide adequate mechanical ventilation. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace. Note: Spilled product is likely to be dangerous slippery.
18. ACCIDENTAL RELEASE MEASURES:	LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination. HANDLING SPILL: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep and pick up & store in closed containers for recycling or disposal.