

# MATERIAL SAFETY DATA SHEET

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## Nisus DSV

Health Emergencies: CHEMTREC® 1-800-424-9300

### Section I: PRODUCT IDENTIFICATION

Manufacturer: Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853  
800-264-0870 FAX: 865-577-5825

Trade Name: Nisus DSV  
EPA Registration No. 10324-80-64405  
Chemical Family: Quaternary Ammonium  
Compound Formula:  $[R_1-N(CH_3)_2CH_2C_6H_5]^+Cl^- [R_2-N(CH_3)_2CH_2C_6H_4C_2H_5]^+Cl^-$   
C.A.S. No.: (See Below)

### Section II: HAZARDOUS INGREDIENTS

	Weight	TWA/TLV
Alkyl (C <sub>12</sub> -C <sub>16</sub> ) dimethyl benzyl ammonium chloride (CAS 68424-85-1)	2.200%	ND
Octyl decyl dimethyl ammonium chloride (CAS 32426-11-2)	1.650%	ND
Diocetyl dimethyl ammonium chloride (CAS 5538-94-3)	0.825%	ND
Didecyl dimethyl ammonium chloride (CAS 7173-51-5)	0.825%	ND
Sodium Carbonate Soda Ash (CAS 497-19-8)	0.500%	ND
Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)	1.900%	ND
Polyethylene glycol 9 moles (CAS 68131-40-8)	2.500%	ND

### Section III: PHYSICAL AND CHEMICAL CHARACTERISTICS (FIRE & EXPLOSION DATA)

**Boiling Point:** ND  
**pH:** 12.4  
**Percent Volatile:** (by weight) ND  
**Evaporation Rate:** ND (Butyl Acetate=1)  
**Solubility In Water:** Soluble  
**Vapor Pressure:** ND  
**Appearance and Odor:** Colorless to light straw in color Benzaldehyde Odor  
**Density:** 8.4 lbs./gallon (H<sub>2</sub>O = 1)  
**Flash Point:** over 200°F  
**Auto Ignition Temp.:** ND  
**Lower Explosion (%):** ND  
**Upper Explosion (%):** ND  
**Extinguishing Media:** Dry Chemical, Water Fog, CO<sub>2</sub>, Foam  
**Special Fire Fighting Procedures:** Cool fire exposed containers with spray, Must wear MSHA/NIOSH approved self contained breathing apparatus.  
**Unusual Fire Explosion Hazards:** Explosive mixtures can form with air. Combustion products are toxic. Solvents vapors can travel to an ignition source and flash back.

### Section IV: PHYSICAL HAZARDS

**Stability:** Stable  
**Conditions to avoid:** NA  
**Incompatibility:** Strong oxidizers or reducing agents  
**Conditions to avoid:** Mixing with strong oxidizers or reducing agents  
**Hazardous Polymerization:** Will not occur  
**Hazardous Decomposition Products:** Toxic hydrogen chloride fumes, oxides of carbon and nitrogen.

### Section V: HEALTH HAZARDS

**Routes of Entry:** Skin Contact, Inhalation, Eye Contact.  
**Inhalation:** Irritation of mucous membrane can be caused by solvent vapors or mists of products. **Eye Contact:** Corrosive. Severe eye damage can result from direct contact. **Skin Contact:** Severe Irritation **Ingestion:** May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.

#### First Aid

**Skin and eye:** In case of contact, immediately flush the eyes and skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. **Ingestion:** If swallowed drink promptly, a large quantity of egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

#### Chemicals Listed as Carcinogen by:

OSHA -NO  
I.A.R.C. Monographs -NO  
National Toxicology Program -NO

### Section VI: TOXICITY

**Acute Oral LD<sub>50</sub>** - 2.72g/kg. **Acute Dermal** - ND **Primary Skin** - Corrosive **Primary Eye** - Corrosive

### Section VII: SPECIAL PROTECTION INFORMATION

**Ventilation type:** Mechanical (Explosion proof)  
**Respiratory Protection:** None required if good ventilation is maintained. For mist or vapor wear NIOSH Approved respirator.  
**Protective Gloves:** Rubber or Neoprene  
**Eye Protection:** Splashproof safety goggles  
**Other Equipment:** Impervious apron, eyewash facility, emergency shower, faceshield.

### SECTION VIII: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURE

**Handling and Storage:** Keep from freezing. Store in original container. **Spill and Leak Procedure:** Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes. **Waste Disposal:** Incinerate. Make sure that all federal, state and local regulations are observed.

### SECTION XIV - TRANSPORTATION INFORMATION

**U.S. DEPARTMENT OF TRANSPORTATION**  
**PROPER SHIPPING NAME:** Consumer Commodity ORM-D  
**BULK SHIPPING:** Contact manufacturer.

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