



# MATERIAL SAFETY DATA SHEET: FROST AWAY AEROSOL

**Inhalation:** Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eye Contact:** Immediately rinse the eyes with water. Remove any contact lenses and continue flushing for at least 15 minutes. Hold the eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.

**Skin Contact:** Wash affected areas with large amounts of soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if irritation persists. Wash clothing and clean shoes before re-use.

**Ingestion:** Give 3 to 4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

**Notes to Physician:** Methanol is metabolized to formaldehyde and formic acid. This in turn, may cause metabolic acidosis, visual disturbances and blindness. Because metabolism must occur before the toxic effects, toxic symptoms may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. Ingestion and subsequent vomiting of this product can lead to aspiration of the product into the lungs which can cause damage and may be fatal.

## Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

[ ] IARC [ ] NTP [ ] OSHA [ ] ACGIH [ ] other

VOC Content: 94.7% by weight.

METHANOL

ORL-RAT LD<sub>50</sub>: 5,600 mg/kg

INH-RAT LC<sub>50</sub>: 64,000 ppm/4 hr

SKN-RAT LD<sub>50</sub>: 15,800 mg/kg

SKN-RBT SPT: 20 mg/24 hr; moderate

EYE-RBT SPT: 100 mg/24 hr; moderate

EYE-RBT: severe irritation

SKN-RBT OPEN IRRITATION TEST: 500 mg; mild

SKN-RBT LD<sub>50</sub>: 5,040 mg/kg

INH-RAT LC<sub>50</sub>: 4,000 mg/m<sup>3</sup>/4 hr

ORL-RAT LD<sub>50</sub>: 1,870 mg/kg

N-PROPANOL

ORL-RAT LD<sub>50</sub>: 20 mg/24 hr; moderate

EYE

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Due to the nature of the aerosol packaging, a large spill is unlikely. For a small spill, wear appropriate protective clothing, eliminate ignition sources of electrical, static, or frictional sparks. Ventilate the area, absorb with an inert material, and transfer all material into a properly labeled container for disposal. Use care as spills may be slippery.

**Waste Disposal Method(s):**

Dispose of in accordance with all Federal, state, and local regulations. Typical disposal is to wrap the empty aerosol container in several layers of paper and dispose of in the trash. Aerosol recycling programs are available in many areas. Do not puncture or incinerate this container.

**Labeling Agent:** N/A.

Section IX - Special Protection Information

**Required Ventilation:**

Local ventilation is recommended to control exposure from operations that can generate excessive levels of mists or vapors. Local ventilation is preferred, because it prevents dispersion into work areas by controlling it at its source.

**Respiratory Protection:**

Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). For concentrations above the TLV and/or PEL but less than 10 times these limits, a NIOSH approved half-facepiece respirator equipped with appropriate chemical cartridges may be used. For concentrations greater than 10 times the TLV and/or PEL, consult the NIOSH respirator decision logic found in publication No. 87-116 or ANSI Z88.2-1992.

**Glove Protection:**

Neoprene or nitrile rubber gloves should be worn. Ensure compliance with OSHA's personal protective equipment (PPE) standard for hand protection, 29 CFR 1910.138.

**Eye Protection:**

Chemical goggles should be worn when handling. Ensure compliance with OSHA's personal protective equipment (PPE) standard for eye and face protection, 29 CFR 1910.133.

**Other Protection:**

Wear protective clothing when handling. A safety shower and an eyewash station should be available. Remove soaked clothing and shoes. Wash clothing and clean shoes before re-use.

Section X - Storage and Handling Information

|                                                      |          |
|------------------------------------------------------|----------|
| <b>Storage Temperature</b>                           |          |
| Max: 120°F                                           | Min: 0°F |
| <b>Storage Conditions</b>                            |          |
| [ ] Indoors [ ] Outdoors [ ] Heated [ ] Refrigerated |          |

**Precautions to be Taken in Handling and Storing:**

Use with caution around heat, sparks, pilot lights, static electricity, and open flame. Empty containers may contain product residues which may exhibit the hazards of the product. To avoid possible explosion, do not pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, hot surfaces, sparks, or open flames.

**Other Precautions:**

Put of reach of children. Read the entire label before using the product. Follow the label directions.

Section XI - Regulatory Information

|                      |                   |                      |
|----------------------|-------------------|----------------------|
| <b>Chemical Name</b> | <b>CAS Number</b> | <b>Upper % Limit</b> |
| METHANOL             | 67-56-1           | 70                   |

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

Section XII - References



STICKER #: 042720101

BATCH #: 042720001

ZONE #: AER2

BARCODE #: 9611019076974518236134

PRODUCT NAME: FROST AWAY AEROSOL

## MATERIAL SAFETY DATA SHEET: FROST AWAY AEROSOL

Page: 1

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## SECTION I - GENERAL INFORMATION

|               |           |
|---------------|-----------|
| DATE OF ISSUE | 8/29/2001 |
| SUPERSEDES    | 6/27/1997 |

Chemical Name &amp; Synonyms

Trade Name & Synonyms  
FROST AWAY AEROSOL  
Formula Mixture --> XChemical Family:  
ALCOHOL/GLYCOL BLEND

Manufacturer's Name:

CHEMSEARCH DIV. OF NCH CORP.

Address:

BOX 152170

IRVING, TX 75015

Prepared By:

K Dickinson/Chemist

Product Code Number

5195

Emergency Phone Number

800-424-9300

## SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)

|                  |            |     |            |      |             |       |          |
|------------------|------------|-----|------------|------|-------------|-------|----------|
| METHANOL         | 200 PPM 1  | TEL | 200 PPM 2  | STEL | 250 PPM 1   | CAS # | 67-56-1  |
| 1-PROPANOL       | 200 PPM 1  | TEL | 200 PPM 2  | STEL | 250 PPM 1   | CAS # | 71-23-8  |
| PROPYLENE GLYCOL | 200 PPM 1  | TEL | 200 PPM 2  | STEL | 250 PPM 1   | CAS # | 57-55-6  |
| CARBON DIOXIDE   | 5000 PPM 1 | TEL | 5000 PPM 2 | STEL | 30000 PPM 1 | CAS # | 124-38-9 |

## SECTION V - HEALTH HAZARD DATA (Continued)

Primary Routes of Entry: X &lt;--Inhalation X &lt;--Ingestion X &lt;--Absorption

## Emergency and First Aid Procedures:

## -Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

## -Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

## -Skin Contact:

WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

## -Ingestion:

IMMEDIATELY GIVE 3 TO 4 GLASSES OF WATER, AND INDUCE VOMITING BY PLACING A FINGER OR BLUNT OBJECT ON THE BACK OF THE VICTIM'S TONGUE. GIVE FLUIDS UNTIL VOMITUS IS CLEAR. GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

## -Notes to Physician:

METHANOL IS METABOLIZED TO FORMALDEHYDE AND FORMIC ACID. THIS IN TURN, MAY CAUSE METABOLIC ACIDOSIS, VISUAL DISTURBANCES AND BLINDNESS, BECAUSE METABOLISM MUST OCCUR BEFORE THE TOXIC EFFECTS. TOXIC SYMPTOMS MAY BE DELAYED FROM 6 TO 30 HOURS FOLLOWING INGESTION. ETHANOL COMPETES FOR THE SAME METABOLIC PATHWAY AND HAS BEEN USED AS AN ANTIDOTE. METHANOL IS EFFECTIVELY REMOVED BY HEMODIALYSIS.

## SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By: IARC--&gt; No NTP--&gt; No OSHA--&gt; Yes ACGIH--&gt; No OTHER--&gt; Yes

METHANOL  
OEL-RAT-LD50: 5628 MG/KG  
OEL-RAT-LC50: 64,000 PPM/4H  
SKN-RBT-LD50: 15,800 MG/KG  
SKN-RBT: 20MG/24H MOD  
EYE-RBT: 100 MG/24H MOD  
OEL-RBT: 100 MG/24H MOD  
SKN-RBT: 20MG/24H MOD  
OEL-RAT-LD50: 22 G/KG  
OEL-RAT-LC50: 20800 MG/KG  
OEL-RAT-LD50: 18500 MG/KG  
OEL-DOG-LD50: 22 G/KG  
OEL-MUS-LD50: 22 G/KG  
OEL-RAT-LD50: 20 G/KG  
PROPYLENE GLYCOL  
OEL-RAT-LD50: 20 G/KG  
OEL-RAT-LC50: 20800 MG/KG  
OEL-RAT-LD50

SECTION VIII - SPILL OR LEAK PROCEDURES (Continued)

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation: LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

Respiratory Protection: 1. /MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection: NITRILE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection: CHEMICAL GOGGLES SHOULD BE WORN.

Other Protection: WEAR PROTECTIVE CLOTHING WHEN HANDLING.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Maximum Temperature: 120 F Outdoors--> Heated--> Refrigerated-->

Precautions to be Taken in Handling and Storing: USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT.

SECTION XI - REGULATORY INFORMATION

| Chemical Name | CAS Number | Upper & Limit |
|---------------|------------|---------------|
| METHANOL      | 67-58-1    | 10            |

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001.

3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODISC, 2001.

4. VENDOR'S MSDS.

A. COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

6. CORROSIVE: CANC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSKY-MARTIN CLOSED CUP, FOR THE RESEARCH ON CANCER, TEL: LOWER EXPLOSION LIMIT, NEPA: NATIONAL FIRE PROTECTION ASSOCIATION, IAAC: INTERNATIONAL AGENCY OF INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MTD: MILD, MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXIAN, PNO3: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SPT: STANDARD DRAIZE TEST, ORL: ORAL, HNM: HUMAN, IHL: INHALATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO

