

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHEM-GUARD AEROSOL  
**Recommended Use** Clear coating  
**Information on Manufacturer**  
 CHEMSEARCH DIV. OF NCH CORP.  
 BOX 152170  
 IRVING, TX 75015

**Product Code** 5008  
**Chemical Nature** Solvent-borne coatings  
**Emergency Telephone Number**  
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

**Emergency Overview**

**DANGER!**  
 Extremely flammable  
 Vapors may cause flash fire or explosion  
 Harmful if inhaled  
 Causes skin irritation  
 Severe eye irritation  
 Harmful or fatal if swallowed  
 Contents under pressure

**Color** Colorless **Physical State** Aerosol **Odor** Aromatic

**Potential Health Effects**

**Principle Route of Exposure**

Eye contact, Skin contact, Inhalation.

**Primary Routes of Entry**

Inhalation, Skin Absorption.

**Acute Effects**

**Eyes** Severe irritation.  
**Skin** Causes skin irritation. May be absorbed through the skin in harmful amounts. Blood disorder may occur after prolonged skin contact. Acidosis.  
**Inhalation** May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis.  
**Ingestion** Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

**Chronic Toxicity**

Repeated and prolonged exposure to solvents may cause brain and nervous system damage, Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood, May cause disorder and damage to the spleen, Risk of serious damage to the lungs (by inhalation), Contains a known or suspected reproductive toxin.

**Target Organ Effects**

Central nervous system, Liver, Kidney, Heart, Blood, Bone Marrow, Spleen.

**Aggravated Medical Conditions**

Liver disorders, Kidney disorders, Skin disorders, Respiratory disorders, Neurological disorders.

**Potential Environmental Effects**

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component                        | CAS-No    |
|----------------------------------|-----------|
| Toluene                          | 108-88-3  |
| Propane                          | 74-98-6   |
| Butane                           | 106-97-8  |
| Isobutyl acetate                 | 110-19-0  |
| Acetone                          | 67-64-1   |
| n-Amyl acetate                   | 628-63-7  |
| Ethylene glycol monopropyl ether | 2807-30-9 |

4. FIRST AID MEASURES

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.  
**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.  
**Inhalation** Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.  
**Ingestion** Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.  
**Notes to Physician** Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE-FIGHTING MEASURES

**Flash Point** -2°F/-19°C **Method** Tag closed cup  
**Autoignition Temperature** No information available.  
**Flammability Limits in Air % Mixture.** **Upper** 10.9 **Lower** 1.1  
**Suitable Extinguishing Media**  
 Dry chemical. Water spray. Carbon dioxide (CO2). Foam.  
**Specific hazards arising from the chemical**  
 Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: 30 inches / 75 cm and Burnback: 5.5 inches / 14 cm.  
**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Aerosol Level (NFPA 30B) -**

3

**NFPA** Health 2  
**HMIS** Health 2

**Flammability** 4  
**Flammability** 4

**Instability** 0  
**Instability** 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Wear protective gloves/clothing. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**Environmental Precautions**

Do not flush into surface water or sanitary sewer system.

**Methods for Containment**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**Methods for Cleaning Up**

Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

**Neutralizing Agent**

Not applicable.

## 7. HANDLING AND STORAGE

**Handling**

Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

**Storage**

Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place.

**Storage Temperature**

**Minimum** 35°F/2°C **Maximum** 120°F/49°C

**Storage Conditions**

**Indoor** X **Outdoor** **Heated** **Refrigerated**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Component                        | ACGIH TLV                  | OSHA PEL                                 | NIOSH  |
|----------------------------------|----------------------------|--|--|
| Toluene                          | 20 ppm TWA                 | 200 ppm TWA : 300 ppm Ceiling            | 500 ppm IDLH : 100 ppm TWA; 375 mg/m <sup>3</sup> TWA 150 ppm STEL; 560 mg/m <sup>3</sup> STEL |
| Propane                          | 1000 ppm TWA               | 1000 ppm TWA; 1800 mg/m <sup>3</sup> TWA | 2100 ppm IDLH (10% LEL) : 1000 ppm TWA; 1800 mg/m <sup>3</sup> TWA                             |
| Butane                           | 1000 ppm TWA               | No data available                        | 800 ppm TWA; 1900 mg/m <sup>3</sup> TWA  |
| Isobutyl acetate                 | 150 ppm TWA                | 150 ppm TWA; 700 mg/m <sup>3</sup> TWA   | 1300 ppm IDLH (10% LEL) : 150 ppm TWA; 700 mg/m <sup>3</sup> TWA                               |
| Acetone                          | 750 ppm STEL : 500 ppm TWA | 1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA | 2500 ppm IDLH (10% LEL) : 250 ppm TWA; 590 mg/m <sup>3</sup> TWA                               |
| n-Amyl acetate                   | 100 ppm STEL : 50 ppm TWA  | 100 ppm TWA; 525 mg/m <sup>3</sup> TWA   | 1000 ppm IDLH : 100 ppm TWA; 525 mg/m <sup>3</sup> TWA   |
| Ethylene glycol monopropyl ether | No data available          | No data available                        | No data available  |

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal Protective Equipment****Eye/Face Protection**

Goggles.

**Skin Protection**

Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |             |                         |                      |
|----------------------------------|-------------|-------------------------|----------------------|
| <b>Physical State</b>            | Aerosol     | <b>Viscosity</b>        | Non viscous          |
| <b>Color</b>                     | Colorless   | <b>Odor</b>             | Aromatic             |
| <b>Appearance</b>                | Transparent | <b>pH</b>               | Not applicable       |
| <b>Specific Gravity</b>          | 0.75        | <b>Evaporation Rate</b> | >1 (Butyl acetate=1) |
| <b>Percent Volatile (Volume)</b> | 88          | <b>VOC Content (%)</b>  | 64.1                 |
| <b>VOC Content (g/L)</b>         | 624.1       | <b>Vapor Pressure</b>   | 2068 mmHg @ 70 °F    |
| <b>Vapor Density</b>             | >1          | <b>Solubility</b>       | Negligible           |
| <b>Boiling Point/Range</b>       | -47°F/-44°C |                         |                      |

## 10. STABILITY AND REACTIVITY

**Chemical Stability**

Stable. Hazardous polymerization does not occur.

**Conditions to Avoid**

Keep away from open flames, hot surfaces, and sources of ignition

**Incompatible Products**

Strong oxidizing agents

**Hazardous Decomposition Products**

Carbon oxides

**Possibility of Hazardous Reactions**

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

No information available.

**Component Information****Acute toxicity**

| Component                        | LD50 Oral           | LD50 Dermal                               | LC50 Inhalation                             | Draize Test       | Other             |
|----------------------------------|---------------------|---|---|-------------------|-------------------|
| Toluene                          | 636 mg/kg ( Rat )   | 12124 mg/kg ( Rat ) 8390 mg/kg ( Rabbit ) | 26700 ppm ( Rat ) 1 h 12.5 mg/L ( Rat ) 4 h | no data available | no data available |
| Propane                          | no data available   | no data available                         | 658 mg/L ( Rat ) 4 h                        | no data available | no data available |
| Butane                           | no data available   | no data available                         | 658 mg/L ( Rat ) 4 h                        | no data available | no data available |
| Isobutyl acetate                 | 13400 mg/kg ( Rat ) | 5000 mg/kg ( Rabbit )                     | no data available                           | no data available | no data available |
| Acetone                          | 5800 mg/kg ( Rat )  | no data available                         | no data available                           | no data available | no data available |
| n-Amyl acetate                   | 1600 mg/kg ( Rat )  | no data available                         | no data available                           | no data available | no data available |
| Ethylene glycol monopropyl ether | 3089 mg/kg ( Rat )  | 960 µL/kg ( Rabbit )                      | no data available                           | no data available | no data available |

**Chronic Toxicity**

| Component                        | Mutagenicity      | Sensitization     | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects                                       |
|----------------------------------|-------------------|-------------------|------------------------|-----------------------|--|
| Toluene                          | no data available | no data available | X                      | no data available     | CNS, eyes, kidneys, liver, respiratory system, skin, heart |
| Propane                          | no data available | no data available | no data available      | no data available     | CNS  |
| Butane                           | no data available | no data available | no data available      | no data available     | CNS  |
| Isobutyl acetate                 | no data available | no data available | no data available      | no data available     | eyes, CNS, respiratory system, skin                        |
| Acetone                          | no data available | no data available | no data available      | no data available     | eyes, CNS, respiratory system, skin                        |
| n-Amyl acetate                   | no data available | no data available | no data available      | no data available     | eyes, CNS, respiratory system, skin                        |
| Ethylene glycol monopropyl ether | no data available | no data available | X                      | no data available     | CNS, liver, kidney, spleen, blood, bone marrow             |

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

| Component                        | ACGIH          | IARC           | NTP            | OSHA           | Other          |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Toluene                          | not applicable | not applicable | not applicable | not applicable | not applicable |
| Propane                          | not applicable | not applicable | not applicable | not applicable | not applicable |
| Butane                           | not applicable | not applicable | not applicable | not applicable | not applicable |
| Isobutyl acetate                 | not applicable | not applicable | not applicable | not applicable | not applicable |
| Acetone                          | not applicable | not applicable | not applicable | not applicable | not applicable |
| n-Amyl acetate                   | not applicable | not applicable | not applicable | not applicable | not applicable |
| Ethylene glycol monopropyl ether | not applicable | not applicable | not applicable | not applicable | not applicable |

**12. ECOLOGICAL INFORMATION****Product Information**

No information available.

**Component Information**

| Component                        | Toxicity to Algae  | Toxicity to Fish   | Microtox                 | Water Flea  | log Pow    |
|----------------------------------|--|--|--------------------------|---|------------|
| Toluene                          | EC50= 12.5 mg/L Pseudokirchneriella subcapitata 72 h EC50> 433 mg/L Pseudokirchneriella subcapitata 96 h | LC50 11.0-15.0 mg/L Lepomis macrochirus 96 h LC50 14.1-17.16 mg/L Oncorhynchus mykiss 96 h LC50 15.22-19.05 mg/L Pimephales promelas 96 h LC50 5.89-7.81 mg/L Oncorhynchus mykiss 96 h LC50 50.87-70.34 mg/L Poecilia reticulata 96 h LC50= 12.6 mg/L Pimephales promelas 96 h LC50= 28.2 mg/L Poecilia reticulata 96 h LC50= 5.8 mg/L Oncorhynchus mykiss 96 h LC50= 54 mg/L Oryzias latipes 96 h | EC50 = 19.7 mg/L 30 min  | EC50 5.46 - 9.83 mg/L 48 h EC50 = 11.5 mg/L 48 h          | 2.65       |
| Propane                          | no data available  | no data available  | no data available        | no data available   | <=2.8 2.3  |
| Butane                           | no data available  | no data available  | no data available        | no data available   | <=2.8 2.89 |
| Isobutyl acetate                 | no data available  | LC50 101-123 mg/L Leuciscus idus melanotus 48 h LC50= 101 mg/L Leuciscus idus melanotus 48 h   | no data available        | EC50 = 168 mg/L 24 h                                      | 1.72       |
| Acetone                          | no data available  | LC50 4.74-6.33 mg/L Oncorhynchus mykiss 96 h LC50 6210-8120 mg/L Pimephales promelas 96 h LC50= 8300 mg/L Lepomis macrochirus 96 h   | EC50 = 14500 mg/L 15 min | EC50 10294 - 17704 mg/L 48 h EC50 12600 - 12700 mg/L 48 h | -0.24      |
| n-Amyl acetate                   | no data available  | LC50= 650 mg/L Lepomis macrochirus 96 h  | no data available        | no data available   | N/A        |
| Ethylene glycol monopropyl ether | no data available  | no data available  | no data available        | no data available   | N/A        |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**13. DISPOSAL CONSIDERATIONS****Product Disposal**

Dispose of in accordance with local regulations.

**Container Disposal**

Warning! Container under pressure. Empty remaining contents. Do not puncture. Empty containers should be taken for local recycling, recovery, or waste disposal.

**14. TRANSPORT INFORMATION****DOT**

**Proper Shipping Name** Consumer commodity  
**Hazard Class** ORM-D  
**Description** Consumer commodity ,ORM-D,

**TDG**

**Proper shipping name** Aerosols  
**Hazard Class** 2.1  
**UN-No** UN1950  
**Description** AEROSOLS,2.1,UN1950 LTD. QTY.

**ICAO**

**UN-No** UN1950

Proper Shipping Name Aerosols  
 Hazard Class 2.1  
 Shipping Description Aerosols, UN1950 LTD. QTY.

## IATA

UN-No UN1950  
 Proper Shipping Name Aerosols, flammable  
 Hazard Class 2.1  
 ERG Code 10L  
 Shipping Description UN1950, Aerosols, flammable, 2.1 LTD. QTY.

## IMDG/IMO

Proper Shipping Name Aerosols  
 Hazard Class 2.1  
 UN-No UN1950  
 EmS No. F-D, S-U  
 Shipping Description UN1950, Aerosols, 2.1 LIMITED QUANTITIES

## 15. REGULATORY INFORMATION

## Inventories

TSCA Complies  
 DSL Complies

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372

| Component                        | CAS-No    | Weight % | SARA 313 - Threshold Values    |
|----------------------------------|-----------|----------|--------------------------------|
| Toluene                          | 108-88-3  | 15-40    | 1.0 % de minimis concentration |
| Ethylene glycol monopropyl ether | 2807-30-9 | 3-7      | 1.0                            |

## SARA 311/312 Hazardous Categorization

| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
|---------------------|-----------------------|-------------|-----------------------------------|-----------------|
| Yes                 | Yes                   | Yes         | Yes                               | No              |

## CERCLA

| Component                        | Hazardous Substances RQs | CERCLA EHS RQs |
|----------------------------------|--------------------------|----------------|
| Toluene                          | Not applicable           | Not applicable |
| Propane                          | Not applicable           | Not applicable |
| Butane                           | Not applicable           | Not applicable |
| Isobutyl acetate                 | Not applicable           | Not applicable |
| Acetone                          | Not applicable           | Not applicable |
| n-Amyl acetate                   | Not applicable           | Not applicable |
| Ethylene glycol monopropyl ether | Not applicable           | Not applicable |

## Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## WHMIS Hazard Class

A Compressed gases, B5 Flammable aerosol, D2A Very toxic materials, D2B Toxic materials.



## 16. OTHER INFORMATION

Prepared By Mike McDowell  
 Supersedes Date 06/28/2004  
 Issuing Date 08/11/2010  
 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

CHEMSEARCH DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.