

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** SAV-IT AEROSOL  
**Product Code** 5014  
**Information on Manufacturer**  
 CERTIFIED LABS, DIV. OF NCH CORP.  
 BOX 152170  
 IRVING, TEXAS 75015

**Recommended Use** Cleaning agent  
**Chemical Nature** Petroleum distillates Amines Mixture  
**Emergency Telephone Number**  
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

**Emergency Overview**

Danger  
 Corrosive  
 Harmful if inhaled and may cause delayed lung injury  
 Causes skin burns  
 Causes eye burns  
 Harmful or fatal if swallowed

**Color** Yellow - Tan  
**Potential Health Effects**  
**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.  
**Primary Routes of Entry** Inhalation, Skin Absorption.  
**Acute Effects**  
**Eyes** Causes eye burns.  
**Skin** Causes skin burns. May be absorbed through the skin in harmful amounts.  
**Inhalation** Harmful by inhalation. Causes burns. Causes headache, drowsiness or other effects to the central nervous system.  
**Ingestion** Ingestion causes burns of the upper digestive and respiratory tracts. May be fatal if swallowed.  
**Chronic Effects** Liver and kidney injuries may occur. Inhaled corrosive substances can lead to a toxic edema of the lungs . Causes adverse cardiovascular effects. May cause irregular heartbeats, especially under conditions of stress.  
**Target Organ Effects** Central nervous system, Kidney, Liver, Respiratory system, Heart.  
**Aggravated Medical Conditions** Kidney disorders. Liver disorders. Skin disorders. Respiratory disorders. Neurological disorders.  
**Interactions with Other Chemicals** Use of alcoholic beverages may enhance toxic effects.  
**Potential Environmental Effects** See Section 12 for additional Ecological information

**Physical State** Liquid

**Odor** Amine-like

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component  | CAS-No     |
|--|------------|
| Butane   | 106-97-8   |
| Morpholine   | 110-91-8   |
| Calcium carbonate  | 471-34-1   |
| Calcium Sulfonate  | 61789-86-4 |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | 64741-88-4 |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | 64741-89-5 |
| Petroleum distillates, hydrotreated light                                      | 64742-47-8 |
| Solvent naphtha (petroleum), medium aliphatic                                  | 64742-88-7 |
| Isopropyl alcohol  | 67-63-0    |
| Propane  | 74-98-6    |
| Tall oil fatty acid morpholine salt  | 68002-77-7 |

4. FIRST AID MEASURES

**General Advice** Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist .  
**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** Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately. Wash contaminated clothing before re-use.  
**Inhalation** Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give 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** The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

**Flash Point** 110°F / 43°C  
**Autoignition Temperature** No information available  
**Flammability Limits in Air Mixture**  
**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.  
**Specific Hazards Arising from the Chemical** Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. Material can create slippery conditions. Flame extension: >18 inches / 45 cm and Burnback: 5 inches / 13 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) -**  

|      |        |   |   |              |   |             |   |
|------|--------|---|---|--------------|---|-------------|---|
| NFPA | Health | 3 | 3 | Flammability | 4 | Instability | 0 |
|------|--------|---|---|--------------|---|-------------|---|

|      |        |   |              |   |             |   |
|------|--------|---|--------------|---|-------------|---|
| HMIS | Health | 3 | Flammability | 4 | Instability | 0 |
|------|--------|---|--------------|---|-------------|---|

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |  |
|----------------------------------|--|
| <b>Personal Precautions</b>      | Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.                             |
| <b>Environmental Precautions</b> | Do not flush into surface water or sanitary sewer system.  |
| <b>Methods for Containment</b>   | 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) |
| <b>Methods for Cleaning Up</b>   | Pick up and transfer to properly labelled containers.  |
| <b>Neutralizing Agent</b>        | Not applicable   |

## 7. HANDLING AND STORAGE

|                            |  |
|----------------------------|--|
| <b>Handling</b>            | Keep away from open flames, hot surfaces and sources of ignition. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist . |
| <b>Storage</b>             | Keep away from open flames, hot surfaces and sources of ignition.  |
| <b>Storage Temperature</b> | <b>Minimum</b> 35°F / 2°C <b>Maximum</b> 120°F / 49°C  |
| <b>Storage Conditions</b>  | <b>Indoor</b> X <b>Outdoor</b> <b>Maximum Heated</b> <b>Refrigerated</b>   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines

| Component  | ACGIH TLV  | OSHA PEL  | NIOSH   |
|--|--|---|---|
| Butane   | TWA: 1000 ppm  | no data available                                     | TWA: 800 ppm<br>TWA: 1900 mg/m <sup>3</sup>   |
| Morpholine   | TWA: 20 ppm<br>Skin                                    | TWA: 20 ppm<br>TWA: 70 mg/m <sup>3</sup><br>Skin      | IDLH: 1400 ppm<br>STEL 105 mg/m <sup>3</sup><br>STEL 30 ppm<br>TWA: 20 ppm<br>TWA: 70 mg/m <sup>3</sup>     |
| Calcium carbonate  | No data available                                      | TWA: 15 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup>   |
| Calcium Sulfonate  | No data available                                      | no data available                                     | no data available   |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup>                              | IDLH: 2500 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                      |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | TWA: 5 mg/m <sup>3</sup><br>STES: 10 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup>                              | IDLH: 2500 mg/m <sup>3</sup><br>STEL: 10mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                       |
| Petroleum distillates, hydrotreated light                                      | No data available                                      | no data available                                     | no data available   |
| Solvent naphtha (petroleum), medium aliphatic                                  | No data available                                      | no data available                                     | no data available   |
| Isopropyl alcohol  | TWA: 200 ppm<br>STEL: 400 ppm                          | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>            | IDLH: 2000 ppm<br>STEL 1225 mg/m <sup>3</sup><br>STEL 500 ppm<br>TWA: 980 mg/m <sup>3</sup><br>TWA: 400 ppm |
| Propane  | TWA: 1000 ppm  | TWA: 1000 ppm<br>TWA: 1800 mg/m <sup>3</sup>          | IDLH: 2100 ppm<br>TWA: 1000 ppm<br>TWA: 1800 mg/m <sup>3</sup>  |
| Tall oil fatty acid morpholine salt  | No data available                                      | no data available                                     | no data available   |

|                                       |   |
|---------------------------------------|---|
| <b>Engineering Measures</b>           | Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.                          |
| <b>Personal Protective Equipment</b>  |   |
| <b>Eye/Face Protection</b>            | Tightly fitting safety goggles. Face-shield.  |
| <b>Skin Protection</b>                | Impervious gloves. Impervious clothing.   |
| <b>Respiratory Protection</b>         | Use NIOSH approved respiratory protection.  |
| <b>General Hygiene Considerations</b> | Ensure that eyewash stations and safety showers are close to the workstation location. Wear protective gloves/clothing. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |               |                                  |                   |
|----------------------------|---------------|----------------------------------|-------------------|
| <b>Physical State</b>      | Liquid        | <b>Viscosity</b>                 | Slight Viscous    |
| <b>Color</b>               | Yellow - Tan  | <b>Odor</b>                      | Amine-like        |
| <b>Appearance</b>          | Opaque        | <b>pH</b>                        | Not applicable    |
| <b>Specific Gravity</b>    | 0.805         | <b>Bulk Density</b>              | No data available |
| <b>Evaporation Rate</b>    | 24.4          | <b>Percent Volatile (Volume)</b> | 76.3              |
| <b>VOC Content (%)</b>     | 63.1          | <b>Vapor Pressure</b>            | 1490 mmHg @ 70 °F |
| <b>Vapor Density</b>       | 1.7           | <b>Solubility</b>                | Negligible        |
| <b>Boiling Point/Range</b> | 320°F / 160°C |                                  |                   |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Chemical Stability</b>                 | Stable. Hazardous polymerization does not occur .  |
| <b>Conditions to Avoid</b>                | Keep away from open flames, hot surfaces, and sources of ignition.                                   |
| <b>Incompatible Products</b>              | Strong oxidizing agents. Reducing agents. Strong acids. Bases.                                       |
| <b>Hazardous Decomposition Products</b>   | Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides . Aldehydes . Ketones. Organic acids. Peroxides. |
| <b>Possibility of Hazardous Reactions</b> | 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             |
|--|--------------------|---|-----------------------|-------------------|-------------------|
| Butane   | no data available  | no data available                             | 658 mg/L ( Rat ) 4 h  | no data available | no data available |
| Morpholine   | 1050 mg/kg ( Rat ) | 310 mg/kg ( Rabbit )                          | no data available     | no data available | no data available |
| Calcium carbonate  | 6450 mg/kg ( Rat ) | no data available                             | no data available     | no data available | no data available |
| Calcium Sulfonate  | 5000 mg/kg ( Rat ) | 4000 mg/kg ( Rabbit )                         | no data available     | no data available | no data available |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | 5000 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit )                         | 2.18 mg/L ( Rat ) 4 h | no data available | no data available |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | 5000 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit )                         | 2.18 mg/L ( Rat ) 4 h | no data available | no data available |
| Petroleum distillates, hydrotreated light                                      | 5000 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit )                         | 5.2 mg/L ( Rat ) 4 h  | no data available | no data available |
| Solvent naphtha (petroleum), medium aliphatic                                  | 5000 mg/kg ( Rat ) | 3000 mg/kg ( Rabbit )                         | 5.28 mg/L ( Rat ) 4 h | no data available | no data available |
| Isopropyl alcohol  | 4396 mg/kg ( Rat ) | 12800 mg/kg ( Rat )<br>12870 mg/kg ( Rabbit ) | 72.6 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 |
| Tall oil fatty acid morpholine salt  | no data available  | no data available                             | no data available     | no data available | no data available |

## Chronic Toxicity

| Component  | Mutagenicity      | Sensitization     | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects                           |
|--|-------------------|-------------------|------------------------|-----------------------|--|
| Butane   | no data available | no data available | no data available      | no data available     | CNS, liver, heart                              |
| Morpholine   | no data available | no data available | no data available      | no data available     | skin, eyes, respiratory system, liver, kidneys |
| Calcium carbonate  | no data available | no data available | no data available      | no data available     | respiratory system, skin, eyes                 |
| Calcium Sulfonate  | no data available | no data available | no data available      | no data available     | no data available                              |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | no data available | no data available | no data available      | no data available     | no data available                              |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | no data available | no data available | no data available      | no data available     | no data available                              |
| Petroleum distillates, hydrotreated light                                      | no data available | no data available | no data available      | no data available     | CNS, cardiovascular system                     |
| Solvent naphtha (petroleum), medium aliphatic                                  | no data available | no data available | no data available      | no data available     | CNS, liver, kidneys                            |
| Isopropyl alcohol  | no data available | no data available | no data available      | no data available     | eyes, skin, respiratory system, kidney         |
| Propane  | no data available | no data available | no data available      | no data available     | CNS, liver, heart                              |
| Tall oil fatty acid morpholine salt  | no data available | no data available | no data available      | no data available     | no data available                              |

## Carcinogenicity

| Component  | ACGIH          | IARC           |
|--|----------------|----------------|
| Butane   | not applicable | not applicable |
| Morpholine   | not applicable | not applicable |
| Calcium carbonate  | not applicable | not applicable |
| Calcium Sulfonate  | not applicable | not applicable |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | not applicable | not applicable |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | not applicable | not applicable |
| Petroleum distillates, hydrotreated light                                      | not applicable | not applicable |
| Solvent naphtha (petroleum), medium aliphatic                                  | not applicable | not applicable |
| Isopropyl alcohol  | not applicable | not applicable |
| Propane  | not applicable | not applicable |
| Tall oil fatty acid morpholine salt  | not applicable | not applicable |

| Component  | NTP            | OSHA           | Other          |
|--|----------------|----------------|----------------|
| Butane   | not applicable | not applicable | not applicable |
| Morpholine   | not applicable | not applicable | not applicable |
| Calcium carbonate  | not applicable | not applicable | not applicable |
| Calcium Sulfonate  | not applicable | not applicable | not applicable |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | not applicable | not applicable | not applicable |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | not applicable | not applicable | not applicable |
| Petroleum distillates, hydrotreated light                                      | not applicable | not applicable | not applicable |
| Solvent naphtha (petroleum), medium aliphatic                                  | not applicable | not applicable | not applicable |
| Isopropyl alcohol  | not applicable | not applicable | not applicable |
| Propane  | not applicable | not applicable | not applicable |
| Tall oil fatty acid morpholine salt  | 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 |
|--|---|---|-------------------------|-------------------------|---------|
| Butane   | no data available   | no data available   | no data available       | no data available       | 2.89    |
| Morpholine   | EC50= 28.0 mg/L <i>Chlorella vulgaris</i> 96 h<br>EC50= 28.0 mg/L <i>Selenastrum capricornutum</i> 96 h | LC50= 350.0 mg/L <i>Lepomis macrochirus</i> 96 h  | EC50 = 57.0 mg/L 30 min | EC50 = 100.0 mg/L 24 h  | -2.55   |
| Calcium carbonate  | no data available   | no data available   | no data available       | no data available       | N/A     |
| Calcium Sulfonate  | no data available   | LC50 5.7 - 9.7 mg/L <i>Pimephales promelas</i> 96 h   | no data available       | EC50 6.2 - 12 mg/L 48 h | N/A     |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | no data available   | LC50> 5000 mg/L <i>Oncorhynchus mykiss</i> 96 h   | no data available       | EC50 > 1000 mg/L 48 h   | N/A     |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | no data available   | LC50> 5000 mg/L <i>Oncorhynchus mykiss</i> 96 h   | no data available       | EC50 > 1000 mg/L 48 h   | N/A     |
| Petroleum distillates, hydrotreated light                                      | no data available   | LC50= 1740 mg/L <i>Lepomis macrochirus</i> 96 h<br>LC50= 45 mg/L <i>Pimephales promelas</i> 96 h  | no data available       | LC50 = 4720 mg/L 96 h   | N/A     |
| Solvent naphtha (petroleum), medium aliphatic                                  | EC50= 450 mg/L <i>Selenastrum capricornutum</i> 96 h  | LC50= 800 mg/L <i>Pimephales promelas</i> 96 h  | no data available       | EC50 > 100 mg/L 48 h    | N/A     |
| Isopropyl alcohol  | EC50> 1000 mg/L <i>Scenedesmus subspicatus</i> 72 h<br>EC50> 1000 mg/L <i>Scenedesmus</i>               | LC50= 61200 mg/L <i>Pimephales promelas</i> 96 h<br>LC50= 94900 mg/L <i>Pimephales promelas</i> 96 h<br>LC50= 9640 mg/L <i>Pimephales promelas</i> 96 h | EC50 = 35390 mg/L 5 min | EC50 = 13299 mg/L 48 h  | 0.05    |

|                                     |                   |                   |                   |                   |     |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-----|
|                                     | subspicatus 96 h  |                   |                   |                   |     |
| Propane                             | no data available | no data available | no data available | no data available | 2.3 |
| Tall oil fatty acid morpholine salt | 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 as hazardous waste in compliance with local and national regulations  
**Container Disposal** 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

**ICAO**  
**UN-No** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1  
**Shipping Description** Aerosols,UN1950

**IATA**  
**UN-No** UN1950  
**Proper Shipping Name** Aerosols, flammable  
**Hazard Class** 2.1  
**ERG Code** 10L  
**Shipping Description** UN1950,Aerosols, flammable,2.1

**IMDG/IMO**  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2  
**UN-No** UN1950  
**EmS No.** F-D, S-U  
**Shipping Description** UN1950, Aerosols,2

## 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 |
|-------------------|---------|----------|-----------------------------|
| Isopropyl alcohol | 67-63-0 | 1-5      | 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 |
|--|--------------------------|----------------|
| Butane   | Not applicable           | Not applicable |
| Morpholine   | Not applicable           | Not applicable |
| Calcium carbonate  | Not applicable           | Not applicable |
| Calcium Sulfonate  | Not applicable           | Not applicable |
| Petroleum distillates, solvent-refined heavy paraffinic (<3% DMSO extractable) | Not applicable           | Not applicable |
| Petroleum distillates, solvent-refined light paraffinic (<3% DMSO extractable) | Not applicable           | Not applicable |
| Petroleum distillates, hydrotreated light                                      | Not applicable           | Not applicable |
| Solvent naphtha (petroleum), medium aliphatic                                  | Not applicable           | Not applicable |
| Isopropyl alcohol  | Not applicable           | Not applicable |
| Propane  | Not applicable           | Not applicable |
| Tall oil fatty acid morpholine salt  | 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**

B5 Flammable aerosol, A Compressed gases, E Corrosive material , D2B Toxic materials .



#### 16. OTHER INFORMATION

|                     |                          |
|---------------------|--------------------------|
| Prepared By         | Mike McDowell            |
| Supersedes Date     | 03/06/2006               |
| Issuing Date        | 10/14/2008               |
| Reason for Revision | No information available |
| Glossary            | No information available |
| List of References  | No information available |

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