1. PRODUCT AND COMPANY IDENTIFICATION

Product name
Hi-Valu Pine Cleaner

Product number
958004

Reference number
958004CG1-4

Distributor number
730000411

Recommended use
All Purpose Cleaner

Distributor
Hi-Valu, LLC
11434 Moog Dr.
Saint Louis, MO 63146

Company Emergency Phone Number
314-569-2800

Chemical Emergency Phone Number
INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

WARNING

Emergency Overview
May be harmful if swallowed, inhaled, or absorbed through skin
Irritating to eyes and skin

Appearance
Clear Amber, Thin Liquid

Physical state
Liquid.

Odor
Pine

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential Health Effects
Ingestion, Inhalation, Eye Contact, Skin Contact

Acute toxicity

Eyes
Irritating to eyes
Exposure may cause mild skin irritation. Skin absorption is possible upon prolonged contact.

Skin
Exposure of vapors may be irritating to the respiratory system. May cause central nervous system depression with nausea, headache, dizziness, and incoordination

Inhalation
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause additional affects as listed under "Inhalation"

Chronic Effects
Prolonged or repeated skin contact may cause dermatitis.

Aggravated Medical Conditions
Pre-existing eye, skin and respiratory disorders.

Environmental hazard
See Section 12 for additional Ecological Information
3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine oil</td>
<td>8002-09-3</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>&lt; 3%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice
Show this safety data sheet to the doctor in attendance.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact
Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Inhalation
Remove to fresh air. Seek medical attention if symptoms persist.

Ingestion
Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid immediately.

Notes to physician
Treat symptomatically

Protection of First-aiders
Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device

5. FIRE-FIGHTING MEASURES

Flammable Properties
Contains flammable substances dissolved in water in low concentrations.

Flash point
> 194 °F / > 90 °C (based on components)

Suitable Extinguishing Media
Alcohol-resistant foam Dry chemical Carbon dioxide (CO₂)

Unsuitable Extinguishing Media
This product contain alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

Hazardous Combustion Products
Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

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

NFPA
<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS
<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Personal precautions
Ensure adequate ventilation. Use personal protective equipment. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental precautions
Keep out of waterways.

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Mop up & flush to sanitary sewer with plenty of water. Floors may be slippery. Use care to avoid falls.

7. HANDLING AND STORAGE

Advice on safe handling
Keep away from heat, sparks and open flame. No smoking. Do not eat, drink or smoke when using this product. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

Technical measures/Storage conditions
Keep container closed when not in use. Store in a cool, well ventilated area. Avoid overheating or freezing. Wash thoroughly after handling. Keep out of reach of children. Spilled material is slippery. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Review Section 3 & 4 for Exposure Guidelines.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>STEL: 400 ppm</td>
<td>TWA: 400 ppm TWA: 980 mg/m³</td>
<td>IDLH: 2000 ppm TWA: 980 mg/m³</td>
</tr>
<tr>
<td>67-63-0</td>
<td>TWA: 200 ppm</td>
<td></td>
<td>STEL: 500 ppm STEL: 1225 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Institutional Environment
Eye/Face Protection
Safety glasses are suggested when using this product in heavy use and institutional environments.

Consumer Environments
Care should be taken to avoid Eye contact.

Skin and body protection
Rubber gloves.

Respiratory protection
Unnecessary in open institutional environments.

Hygiene measures
Practice good personal hygiene. Wash after handling.

Industrial Environment
Eye/Face Protection
Splash-proof chemical goggles or face shield.

Skin and body protection
Solvent-proof gloves.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
Do not eat, drink or smoke when using this product. Practice good personal hygiene. Wash after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:
Liquid

Appearance:
Clear Amber Thin Liquid

Odor:
Pine

Color:
Clear Amber
**Property** | **Values** | **Remarks** | **Methods**
--- | --- | --- | ---
pH | 6.5-7.5 | No data available | No data available
Melting/freezing point | N/A | No data available | No data available
Freezing Point | | Estimated | (based on components)
Boiling point/boiling range | ~ 101 °C / 214 °F | No information available | No information available
Flash Point | > 90 °C / > 194 °F | No information available | No information available
Evaporation rate | | No information available | No information available
Flammability (solid, gas) | | No information available | No information available
Flammability Limits in Air | upper flammability limit | | |
| lower flammability limit | | | |
Explosion Limits | upper | | |
| lower | | | |
Vapor pressure | N/A | No information available | No information available
Vapor density | | No information available | No information available
Specific Gravity | 1.00 - 1.03 | No information available | No information available
Water solubility | Miscible with water | Miscible | | 

Oxidizing Properties | not applicable | | |

9.2 Other information

**VOC Content(%)** | < 10 % | | |

### 10. STABILITY AND REACTIVITY

**Stability**
Stable under recommended storage conditions.

**Incompatible products**
Strong oxidizing agents Strong acids Strong bases

**Conditions to Avoid**
None known based on information supplied

**Hazardous Decomposition Products**
Forced combustion yields carbon oxides.

**Hazardous Polymerization**
Hazardous polymerization does not occur

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Product Information**
May be harmful by inhalation, ingestion, or skin absorption.

**Inhalation**
Inhalation of vapors in high concentration may cause irritation of the respiratory system May cause central nervous system depression with nausea, headache, dizziness, and incoordination

**Eye contact**
Irritating to eyes.

**Skin contact**
Prolonged skin contact may defat the skin and produce dermatitis

**Ingestion**
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea May cause additional affects as listed under "Inhalation"
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine oil</td>
<td>3200 mg/kg (Rat)</td>
<td>5 g/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>4396 mg/kg (Rat)</td>
<td>12800 mg/kg (Rat)</td>
<td>12870 mg/kg (Rabbit)</td>
</tr>
<tr>
<td></td>
<td>72.6 mg/L (Rat) 4 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chronic toxicity

**Prolonged or repeated skin contact may cause dermatitis.**

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. The strong acid process for manufacturing isopropanol has been linked to an increased risk of cancer by IARC and OSHA. However, IARC and OSHA have found no evidence that isopropanol is carcinogenic to humans outside of that specific environment.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td></td>
<td>Group 3</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**IARC:** (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA:** (Occupational Safety & Health Administration)
X - Present

### Target Organ Effects

Central nervous system

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>1000: 72 h Desmodesmus subspicatus mg/L EC50 1000: 96 h Desmodesmus subspicatus mg/L EC50</td>
<td>11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50</td>
<td>13299: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>0.05</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging: Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>Toxic Ignitable</td>
</tr>
</tbody>
</table>
14. TRANSPORT INFORMATION

Note
Cleaning Compound, Liquid

DOT
Proper shipping name
Not regulated
Cleaning Compound, Liquid

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>International Inventories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>TSCA</td>
</tr>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>-</td>
</tr>
<tr>
<td>ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>-</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td></td>
<td>Mexico: TWA 400 ppm Mexico: TWA 980 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m³</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prepared By Daley International 4100 West 76th Street Chicago, IL 60652
Issuing date 02-Nov-2012
Revision Date 06-Feb-2013

Revision Note

1. Disclaimer

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

Safety Data Sheet