# Safety Data Sheet

**Issue Date:** 01-Jan-2011 **Revision Date:** 12-Nov-2013 **Version** 1

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** Cal 112

**Other means of identification**

**SDS #** CPCI-014
**UN/ID No** UN2922

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Paint stripper.

**Details of the supplier of the safety data sheet**

**Supplier Address**
Cal Pac Chemicals, Inc
6231 Maywood Ave
Huntington Park, CA 90255

**Emergency Telephone Number**

**Company Phone Number** (323) 585-2178
**Emergency Telephone (24 hr)** Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

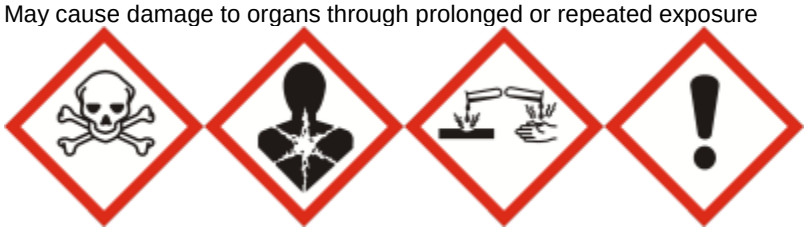
**Appearance** Chlorinated solvent **Physical State** Liquid **Odor** Phenol-type odor

**Classification**

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 3 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity | Category 1B |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

**Signal Word**
**Danger**

**Hazard Statements**
Harmful if swallowed
Toxic in contact with skin
Causes severe skin burns and eye damage
May cause cancer
May cause respiratory irritation. May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure



**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**
If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Call a poison center or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do not induce vomiting

**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Other Hazards**
Harmful to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Methylene chloride | 75-09-2 | <50 |
| Cresol | 1319-77-3 | <25 |
| Formic acid | 64-18-6 | <15 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice** If exposed or concerned: Get medical advice/attention.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

**Skin Contact** Wash off immediately with plenty of water. Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. Call a physician if you feel unwell.

**Inhalation** Remove to fresh air. Restore breathing. Seek immediate medical attention/advice.

**Ingestion** Rinse mouth. If conscious, give several glasses of milk (preferred) or water. Induce vomiting, but only if victim is fully conscious. Get medical attention if you feel unwell.

**Most important symptoms and effects**

**Symptoms** Harmful if absorbed through skin from prolonged contact. Prolonged contact may even cause severe skin irritation or mild burn. May cause eye burns and permanent eye damage.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water. Water spray (fog). Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**
Solvents have a low boiling point. Drum must be vented to release pressure for product in vicinity of fires. Toxic or irritating vapor may be released.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Remove all heat sources. Avoid contact with eyes and skin.

**Methods and material for containment and cleaning up**

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

**Methods for Clean-Up** Collect with dry sand, clay, or other absorbent. Sweep up spills and place in a metal container. Wash spill area with plenty of water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Carefully vent any internal pressure before removing closure.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Store away from heat, open flame, and sunlight.

**Incompatible Materials** Strong alkalis. Oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Methylene chloride<br>75-09-2 | TWA: 50 ppm | TWA: 25 ppm<br>(vacated) TWA: 500 ppm<br>(vacated) STEL: 2000 ppm 5 min in any 3 h<br>(vacated) Ceiling: 1000 ppm<br>STEL: 125 ppm see 29 CFR 1910.1052 | IDLH: 2300 ppm |
| Cresol<br>1319-77-3 | TWA: 20 mg/m$^3$ inhalable fraction and vapor<br>S* | TWA: 5 ppm TWA: 22 mg/m$^3$ (vacated) TWA: 5 ppm<br>(vacated) TWA: 22 mg/m$^3$<br>(vacated) S*<br>S* all isomers | - |
| Formic acid<br>64-18-6 | STEL: 10 ppm<br>TWA: 5 ppm | TWA: 5 ppm TWA: 9 mg/m$^3$ (vacated) TWA: 5 ppm<br>(vacated) TWA: 9 mg/m$^3$ | IDLH: 30 ppm<br>TWA: 5 ppm<br>TWA: 9 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Eyewash stations.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Rubber gloves or other impervious gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory Protection** Use NIOSH organic vapor cartridge mask for short exposure to high concentrations of vapor. For prolonged exposure to TLV or higher concentration, use full air supply mask.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | | |
| **Appearance** | Chlorinated solvent | **Odor** | Phenol-type odor |
| **Color** | Not determined | **Odor Threshold** | Not determined |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | 4.0; Phosphorus <0.2 | |
| **Melting Point/Freezing Point** | -62 °C | Bottom layer |
| **Boiling Point/Boiling Range** | 40 °C / 104 °F | |
| **Flash Point** | Not combustible | |
| **Evaporation Rate** | Not available | |
| **Flammability (Solid, Gas)** | n/a-liquid | |
| **Upper Flammability Limits** | 24% | |
| **Lower Flammability Limit** | 165 | |
| **Vapor Pressure** | Not available | |
| **Vapor Density** | Not available | |
| **Specific Gravity** | Bottom layer 1.21<br>Stop water solution layer 1.02 | (1=Water) |
| **Water Solubility** | Partially soluble | |

| Property | Values | Remarks • Method |
|---|---|---|
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | Not determined | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |
| **Dynamic Viscosity** | Not determined | |
| **Explosive Properties** | Not determined | |
| **Oxidizing Properties** | Not determined | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Temperatures >100 °C.

**Incompatible Materials**
Strong alkalis. Oxidizers.

**Hazardous Decomposition Products**
Hydrogen chloride. Phosgene. Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns. Toxic in contact with skin.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Harmful if swallowed.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Methylene chloride<br>75-09-2 | > 2000 mg/kg ( Rat ) | - | = 76000 mg/m$^3$ ( Rat ) 4 h |
| Cresol<br>1319-77-3 | = 1454 mg/kg ( Rat ) | = 242 mg/kg ( Rat ) = 2000 mg/kg ( Rabbit ) | - |
| Formic acid<br>64-18-6 | = 730 mg/kg ( Rat ) | - | - |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** May cause cancer.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Methylene chloride<br>75-09-2 | A3 | Group 2B | Reasonably Anticipated | X |

**Legend**

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A3 - Animal Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 2B - Possibly Carcinogenic to Humans*
***NTP (National Toxicology Program)***
*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*
***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***
*X - Present*

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity**
Not determined

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Harmful to aquatic life with long lasting effects.

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Methylene chloride<br>75-09-2 | 500: 96 h Pseudokirchneriella subcapitata mg/L EC50 500: 72 h Pseudokirchneriella subcapitata mg/L EC50 | 140.8 - 277.8: 96 h Pimephales promelas mg/L LC50 flow-through 262 - 855: 96 h Pimephales promelas mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 flow-through | EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min | 1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna mg/L EC50 |
| Cresol<br>1319-77-3 | | 12.8: 96 h Pimephales promelas mg/L LC50 flow-through 10: 96 h Lepomis macrochirus mg/L LC50 static | | |
| Formic acid<br>64-18-6 | 25: 96 h Desmodesmus subspicatus mg/L EC50 26.9: 72 h Desmodesmus subspicatus mg/L EC50 | 175: 24 h Lepomis macrochirus mg/L LC50 static | EC50 = 46.7 mg/L 17 h | 120: 48 h Daphnia magna mg/L EC50 138 - 165.6: 48 h Daphnia magna mg/L EC50 Static |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**

| Chemical Name | Partition Coefficient |
|---|---|
| Methylene chloride<br>75-09-2 | 1.25 |
| Formic acid<br>64-18-6 | -0.54 |

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Methylene chloride<br>75-09-2 | U080 | Included in waste streams: F001, F002, F024, F025, F039, K009, K010, K156, K157, K158 | | U080 |
| Cresol<br>1319-77-3 | U052 | Included in waste stream: F004 | 200.0 mg/L regulatory level | U052 |
| Formic acid<br>64-18-6 | U123 | Included in waste streams: K009, K010 | | U123 |

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|---|---|---|---|
| Methylene chloride<br>75-09-2 | Category I - Volatiles | | Toxic waste<br>waste number F025<br>Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Methylene chloride<br>75-09-2 | Toxic |
| Formic acid<br>64-18-6 | Toxic<br>Corrosive |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

| | |
|---|---|
| **UN/ID No** | UN2922 |
| **Proper Shipping Name** | Corrosive liquid, toxic, n.o.s. (Methylene chloride, Formic acid) |
| **Hazard Class** | 8 |
| **Subsidiary Hazard Class** | 6.1 |
| **Packing Group** | II |

**IATA**

| | |
|---|---|
| **UN/ID No** | UN2922 |
| **Proper Shipping Name** | Corrosive liquid, toxic, n.o.s. (Methylene chloride, Formic acid) |
| **Hazard Class** | 8 |
| **Subsidiary Hazard Class** | 6.1 |
| **Packing Group** | II |

**IMDG**

| | |
|---|---|
| **UN/ID No** | UN2922 |
| **Proper Shipping Name** | Corrosive liquid, toxic, n.o.s. (Methylene chloride, Formic acid) |
| **Hazard Class** | 8 |
| **Subsidiary Hazard Class** | 6.1 |
| **Packing Group** | II |
| **Marine Pollutant** | This material may meet the definition of a marine pollutant |

## 15. REGULATORY INFORMATION

**International Inventories**

Not determined

**US Federal Regulations**

**CERCLA**

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Methylene chloride<br>75-09-2 | 1000 lb 1 lb | | RQ 1000 lb final RQ<br>RQ 454 kg final RQ RQ 1 lb final RQ<br>RQ 0.454 kg final RQ |
| Cresol<br>1319-77-3 | 100 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |
| Formic acid<br>64-18-6 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**SARA 313**

| Chemical Name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Methylene chloride - 75-09-2 | 75-09-2 | <50 | 0.1 |
| Cresol - 1319-77-3 | 1319-77-3 | <25 | 1.0 |
| Formic acid - 64-18-6 | 64-18-6 | <15 | 1.0 |

**CWA (Clean Water Act)**

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Methylene chloride 75-09-2 ( <50 ) | | X | X | |
| Cresol 1319-77-3 ( <25 ) | 100 lb | | | X |
| Formic acid 64-18-6 ( <15 ) | 5000 lb | | | X |

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|---|---|
| Methylene chloride - 75-09-2 | Carcinogen |

**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Methylene chloride 75-09-2 | X | X | X |
| Cresol 1319-77-3 | X | X | X |
| Formic acid 64-18-6 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** Not determined | **Flammability** Not determined | **Instability** Not determined | **Special Hazards** Not determined **Personal Protection** Not determined |
| **HMIS** | **Health Hazards** Not determined | **Flammability** Not determined | **Physical Hazards** Not determined | |

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**Revision Note:** New format

**Disclaimer**

**The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**