

# Material Safety Data Sheet

## 1. Product and company identification

**Product name** : Chemsafe Citrus Solvent Degreaser #57009  
**Product code** : A00355 **Product use** : Degreaser  
**Supplier/Manufacturer** : CHEMSAFE  
1480 Grandview Ave  
Paulsboro, NJ 08086

**Telephone number** : 800-767-6933  
**D.O.T. Emergency phone** : CHEMTREC: 800-424-9300  
**Date of issue** : 6/25/13 **Date of previous issue** : 1st Issue

## 2. Hazards identification

### Emergency overview

HMIS: Section 15

**Signal word** : DANGER

**Hazard statements** : EXTREMELY FLAMMABLE AEROSOL. HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. CONTENTS UNDER PRESSURE.

**Potential Health Effects** : See section 11 for more detailed information on health effects and symptoms.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Eyes:** Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

**Skin:** Causes skin irritation. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

**Ingestion:** Aspiration hazard if swallowed. Can enter lungs and cause damage.

**Inhalation:** Can cause dizziness, light-headedness, headache, nausea and blurred vision.

**Chronic effects** : May cause target organ damage, based on animal data. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Medical conditions aggravated by over-exposure** : Pre-existing skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**Target organs** : Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes, central nervous system (CNS).

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
Distillates (petroleum), hydrotreated light	64742-47-8	65 - 85
d-Limonene; (R)-p-mentha-1,8-diene	5989-27-5	5 - 15
dimethyl glutarate	1119-40-0	1 - 10
Carbon dioxide	124-38-9	1 - 10
dimethyl adipate	627-93-0	1 - 10

## 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, get medical attention.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, get medical attention.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

- Flammability of the product** : Extremely flammable. In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain

## 7. Handling and storage

product residue and can be hazardous.

**Storage** : Do not store above the following temperature: 49°C (120.2°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

Ingredient	Exposure limits
Carbon dioxide	<p><b>ACGIH TLV (United States, 2/2010).</b>                      TWA: 5000 ppm 8 hour(s).                      TWA: 9000 mg/m<sup>3</sup> 8 hour(s).                      STEL: 30000 ppm 15 minute(s).                      STEL: 54000 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>                      TWA: 10000 ppm 8 hour(s).                      TWA: 18000 mg/m<sup>3</sup> 8 hour(s).                      STEL: 30000 ppm 15 minute(s).                      STEL: 54000 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>NIOSH REL (United States, 6/2009).</b>                      TWA: 5000 ppm 10 hour(s).                      TWA: 9000 mg/m<sup>3</sup> 10 hour(s).                      STEL: 30000 ppm 15 minute(s).                      STEL: 54000 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>OSHA PEL (United States, 6/2010).</b>                      TWA: 5000 ppm 8 hour(s).                      TWA: 9000 mg/m<sup>3</sup> 8 hour(s).</p>

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protection

HMIS: Section 15

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: Safety glasses.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Gloves

### Personal protective equipment

**Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: A respirator is not needed under normal and intended conditions of product use.



## 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Clear.
<b>Odor</b>	: Citrus
<b>Relative density</b>	: 0.88
<b>Vapor pressure</b>	: 11.3 kPa (85 mm Hg) [20°C]
<b>Solubility</b>	: Insoluble in the following materials: cold water and hot water.
<b>VOC (Consumer)</b>	: 9.7 % (w/w)      0.712 lbs/gal (85.4 g/l)

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : Avoid excessive heat. Keep away from ignition sources such as heat/sparks/open flame. - No smoking.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light	LC50 Inhalation Vapor	Rat	>6.8 mg/l	4 hours
	LD50 Dermal	Rabbit	2000 to 4000 mg/kg	-
d-Limonene; (R)-p-mentha-1, 8-diene	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
dimethyl glutarate	LD50 Oral	Rat	4400 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
dimethyl adipate	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

### Chronic toxicity

#### Carcinogenicity

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
None of the components are listed.						

## 12. Ecological information

**Ecotoxicity** : Not determined.

### Aquatic ecotoxicity


Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated light d-Limonene; (R)-p-mentha-1, 8-diene	Acute LC50 2200 ug/L Fresh water	Fish - Lepomis macrochirus - 35 to 75 mm	4 days
	Acute EC50 421 ug/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute EC50 688 ug/L Fresh water	Fish - Pimephales promelas - 34 days - 19.1 mm - 0.085 g	96 hours

## 13. Disposal considerations

**Waste disposal** : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

**Waste classification** :

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not available.	Consumer commodity or Limited quantity	ORM-D	-		-
<b>IMDG Class</b>	UN1950	AEROSOLS, flammable	2.1	-		-

PG\* : Packing group

## 15. Regulatory information

### United States

**SARA Title III** : **SARA 302/304/311/312 hazardous chemicals:** Carbon dioxide; d-Limonene; (R)-p-mentha-1,8-diene  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**CERCLA:** Hazardous substances.: No products were found.

**US INVENTORY (TSCA)** : All components are listed or exempted.

California Prop. 65-None of the components are listed.

**Hazardous Material Information System (U.S.A.)** :

**Health** 1      **Flammability** 3      **Reactivity** 0

**National Fire Protection Association (U.S.A.)** :

**Health** 1      **Flammability** 3      **Instability/Reactivity** 0      **Special**

### Canada

**WHMIS (Classification)** : Not determined.

**WHMIS (Pictograms)** :

**CANADA INVENTORY (DSL)** : Not determined.

## 16. Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.