

ISSUE DATE: 1/15/1990

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**1. PRODUCT AND COMPANY IDENTIFICATION****GHS PRODUCT IDENTIFIER:**

TRADE NAME; CHEMSAFE ORANGE

**OTHER MEANS OF IDENTIFICATION:****RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**

RECOMMENDED USE: NATURAL ADHESIVE, GLUE AND MASTIC REMOVAL

**SUPPLIER'S DETAILS:**

**AramSCO**  
A SAFEGUARD INDUSTRIAL COMPANY  
1480 GRANDVIEW AVE.  
THOROFARE, NJ 08086  
(800)767-6933

**EMERGENCY PHONE NUMBER:**

COMPANY PHONE NUMBER: (800)767-6933  
(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

**2. HAZARD IDENTIFICATION****GHS CLASSIFICATION:**

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

**PHYSICAL HAZARDS:**

FLAMMABLE LIQUIDS CATEGORY 3

**HEALTH HAZARDS:**

ASPIRATION HAZARD CATEGORY 1  
SKIN CORROSION IRRITATION CATEGORY 2  
SERIOUS EYE DAMAGE IRRITATION CATEGORY 1  
SKIN SENSITIZER CATEGORY 1  
AQUATIC TOXICITY ACUTE 1/ CHRONIC 1

**LABEL ELEMENTS:****SIGNAL WORD: DANGER****HAZARD STATEMENTS:**

Flammable liquid and vapor  
Causes skin irritation  
Causes serious eye damage  
May be fatal if swallowed and enters airways  
May cause an allergic skin reaction  
Very toxic to aquatic life with long lasting effects

**HAZARD SYMBOLS:****PRECAUTIONARY STATEMENTS:**

Keep out of reach of children  
 Keep away from heat, sparks, open flames, hot surfaces. No smoking.  
 Keep container tightly closed  
 Keep cool  
 Ground bond container and receiving equipment  
 Use explosion proof electrical and ventilating equipment  
 Use only non sparking tools  
 Take precautionary measures against static discharge  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wash hands, face and all exposed skin areas after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing should not be allowed out of the workplace.  
 Avoid release to the environment

**PRECAUTIONARY STATEMENTS (RESPONSE):**

IF SWALLOWED: Immediately call a poison center or doctor or physician. Do not induce vomiting.

IF ON SKIN(or hair): Rinse skin with water shower. If skin irritation or rash occurs, get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately call a poison center, doctor or physician.

IN CASE OF FIRE: Use dry chemical, co2 or foam to extinguish. Collect spillage.

**PRECAUTIONARY STATEMENTS (STORAGE):**

Store in a well ventilated place. Keep cool. Store locked up.

**PRECAUTIONARY STATEMENTS (DISPOSAL):**

Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

**OTHER HAZARDS:**

Repeated or prolonged exposure can cause skin dryness or cracking.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
D-LIMONENE	5989-27-5	PROPRIETARY
ETHOXYLATED NONYLPHENOL	127087-87-0	PROPRIETARY

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

#### 4. FIRST AID MEASURES

**INGESTION:** If swallowed, call a poison control center immediately. Wash out mouth with water. Do not induce vomiting, this product is an aspiration hazard. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.

**INHALATION:** Not expected; however, if irritation or overexposure occurs, move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Call a doctor or physician.

#### **Most Important Symptoms and Effects, Acute and Delayed**

**INGESTION:** Symptoms may include diarrhea, gastric pain, and vomiting.

**SKIN CONTACT:** Symptoms may include redness, dryness and cracking of skin.

**INHALATION:** Symptoms may include irritation of respiratory tract and/or CNS symptoms such as dizziness, confusion, drowsiness or fatigue.

**EYE CONTACT:** Symptoms may include stinging, tearing, redness and blurred vision.

#### **Indication of immediate medical attention and special treatment needed, if necessary.**

Treat Symptomatically.

#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Use fire extinguishers rated for class B fires. CO<sub>2</sub>, Foam.

**Unsuitable extinguishing media-** Do not use water jet. If water is used utilize fog nozzle or apparatus.

**Specific hazards arising from the chemical:** Flammable liquid GHS category 3. In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products:** carbon monoxide and CO<sub>2</sub>

**Special protective actions for fire-fighters:** Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

**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, protective equipment and emergency procedures:

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No Flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

**Environmental precautions:** Avoid dispersal of spilled material with soil, waterways, drains and sewers. See section 12 for additional ecological information.

### Methods and materials for containment and cleaning up.

**Small spill:** Stop leak if without risk. Move containers from the spill area. Use spark proof tools and equipment. Absorb with an inert dry non combustible material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

**Large spill:** Stop leak if without risk. Move containers from spill area. Use spark proof tools and equipment. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry non combustible material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling:

**Safe Handling Advice:** Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Ground bond container and receiving equipment during transfer. Do not flame cut, braze or weld emptied containers as they contain product residues and all precautions within this sds still apply and should be followed.

**Advice on general occupational hygiene:** 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. See also section 8 for additional hygiene information.

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

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Keep container tightly closed when not in use. Do not store in unlabeled containers.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<u>Control Parameters</u>	<u>Occupational Exposure Limits</u>		
<u>Ingredient Identity</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
d-limonene 5989-27-5	8hr TWA=30ppm		

**Appropriate Engineering Controls**

**Engineering Controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and air concentrations below occupational exposure standards. Use spark proof ventilation equipment.

**Individual protection measures, such as personal protective equipment. (PPE)**

**Eye/Face Protection:** Wear approved safety goggles with side shields

**Skin & Body Protection:** Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures can not always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

**Respiratory Protection:** If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: orange liquid

Odor: citrus

Odor threshold: not available

pH: not applicable

Melting Point/Freezing Point: -74C

Initial Boiling Point/Range: B.P.178.6 Celsius

Flash Pt: 118F

Evaporation Rate: <1 (butyl acetate=1)

Lower explosive limits: no data

Upper explosive limits: no data

Vapor Pressure: . ca 1mmHg

Vapor Density: 4.5-5 (air=1)

Relative Density: .83

Solubility in water: Emulsifies

Partition coefficient: not applicable

Auto ignition temp: >238C

Decomposition Temp: not available

Viscosity: not applicable

**10. STABILITY AND REACTIVITY**

Reactivity: Stable in normal ambient temperature and pressure

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: not under normal conditions of storage and use.

Conditions to Avoid: Avoid all possible sources of ignition. Do not pressurize, cut weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible Materials: Oxidizing materials, strong acids, strong bases

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity : not classified,

Skin corrosion irritation: classified, Category 2, Causes skin irritation, d-limonene 5989-27-5

Serious Eye damage:classified, Category 1, Causes serious eye damage, nonylphenol ethoxylate 127087-87-0

Sensitization: Classified, Category 1, may cause an allergic skin reaction, d-limonene 5989-27-

Mutagenicity: Not classified,

Carcinogenicity: Not classified

Reproductive Toxicity: Not Classified

Teratogenicity: Not Available

Specific target Organ Toxicity (single exposure)

Not classified

Specific target Organ Toxicity (repeated exposure):

Not classified

Aspiration Hazard:

d-limonene 5989-27-5, Aspiration Hazard Category 1

**Information on the likely routes of exposure:****Ingestion:** May be harmful if swallowed. May be fatal if swallowed and enters airways.**Inhalation:** Not expected**Skin:** Causes skin irritation. May cause allergic skin reaction**Eye:** Causes serious eye damage**Symptoms related to the physical, chemical and toxicological characteristics****Ingestion:** See section iv, most important symptoms and effects, acute and delayed.**Inhalation:** See section iv, most important symptoms and effects, acute and delayed.**Skin:** See section iv, most important symptoms and effects, acute and delayed.**Eye:** See section iv, most important symptoms and effects, acute and delayed.**Delayed and immediate effects and also chronic effects from short and long term exposure.**

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis

Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

**Numerical measures of Toxicity**

Not Available

**12. ECOLOGICAL INFORMATION****Toxicity:**

<u>Ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
d-limonene	LC50-.702mg/l	fish(fathead minnow)	96h
	EC50-.421mg/l	water flea	48h

**Persistence and degradability:****Bioaccumulation Potential:**

Not expected to bioaccumulate

**Mobility in Soil:**

No data

**Other adverse Effects:**

No known significant effects or critical hazards

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with applicable federal, state and local regulations. Product should not be allowed to enter drains, water courses or soil.

**14. TRANSPORTATION INFORMATION****DOT:**

UN ID #                    NA2319  
SHIPPING NAME:        TERPENE HYDROCARBON N.O.S.  
HAZARD CLASS:         3  
PACKING GROUP:        III  
ENVIRONMENTALLY HAZARDOUS: YES  
**IATA:**                    NOT DETERMINED  
**IMDG:**                    NOT DETERMINED

**15. REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:** All ingredients are listed or exempted with TSCA.  
SARA 302/304: no products were found.  
SARA 311/312: fire hazard  
California Prop 65: none known

**16. OTHER INFORMATION**

HMIS RATING: HEALTH (1) FIRE (2) REACTIVITY (0)  
4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

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