

MATERIAL SAFETY DATA SHEET

CITRA-SOLV DEGREASER

Section I

A-ONE CHEMICALS & EQUIPMENT, INC.

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Telephone Number for Information
(713) 644-1492

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Section II — Hazardous Ingredients/Identity Information

| Hazardous Components <i>(Specific Chemical Identity: Common Name(s))</i> | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
|--|---------------------|----------------------|---------------------------------|---------------------|
| Alkoxylated Alcohol | N/A | N/A | Proprietary | Proprietary |
| Quaternary Ammonium Compound | N/A | N/A | Proprietary | Proprietary |
| Terpene Hydrocarbons | N/A | N/A | Proprietary | Proprietary |
| Aliphatic Alcohol | 15mg/m ³ | 10 mg/m ³ | Proprietary | Proprietary |

Section III — Physical/Chemical Characteristics

Boiling Point
>212^o

Specific Gravity (H)
1.04

Vapor Pressure (mm Hg.)
<0.1

Melting Point
Liquid

Vapor Density (AIR = 1)
3.1

Evaporation Rate (Butyl Acetate = 1)
>5

pH
11.2

Solubility in Water
100%

Appearance and Odor
Clear yellow liquid with citrus/amine odor

Section IV — Fire and Explosion Hazard Data

Flash Point (*Pensky-Marten's Closed Cup*)

168 °F

Flammable Limits

LEL

1.0%

UEL

15.0%

Extinguishing Media

A, B, C, or D

Special Fire Fighting Procedures

Treat as oil fire

Unusual Fire and Explosion Hazards

None Known

Small Fire - use dry chemical powder

Large Fire - use water spray, fog, or foam. DO NOT USE WATER JET.

Section V — Reactivity Data

Stability

Unstable

Conditions to Avoid

Stable

X

None

Incompatibility (Materials to Avoid)

Acids, Oxidizing Agents

Hazardous Decomposition or Byproducts

Oxides of carbon and nitrogen

| Hazardous Polymerization | May Occur | | Conditions to Avoid |
|---------------------------------|-----------------------|---|----------------------------|
| | Will Not Occur | X | Oxidizers |

Section VI — Health Hazard Data

Route(s) of Entry

Inhalation? X

Skin? X

Ingestion? X

Health Hazards (Acute and Chronic)

ACUTE: EYES: Severely irritating, possible burns

SKIN: May cause severe to moderate irritation of skin. Repeated exposure may cause skin dryness or cracking. practically non-toxic in contact with skin.

INGESTION: Based on testing of similar product, liquid is considered to be moderately toxic by ingestion.

INHALATION: Not expected to be a relevant route of exposure. High vapor or aerosol mist may be irritating or toxic to the nose, throat, and upper respiratory tract. Fumes may upset stomach.

Non-Carcinogenic effects/Non-Mutagenic for bacteria and/or yeast. Contains material which causes damage to kidneys, upper respiratory tract, skin, eye lens or cornea.

Carcinogenicity:

NTP?
None Known

IARC Monographs?
None Known

OSHA Regulated?
None Known

Signs and Symptoms of Exposure

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Dermatitis signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Nausea and shortness of breath.

Medical Conditions (Generally Aggravated by Exposure)

Pre-Existing medical conditions including kidneys, upper respiratory tract, skin eye (lens or cornea)

Emergency and First Aid Procedures

SKIN: Wash with soap and plenty of water. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention. Do not use until thoroughly cleaned or laundered.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes while folding eyelids open. Get prompt medical attention.

INHALATION: Medical attention IMMEDIATELY. Place head between knees. DO NOT inhale vomit materials, as severe lung damage can occur.

Section VII — Precautions for Safe Handling and Use**Steps to Be Taken in Case Material is Released or Spilled**

Stop Release or Spill. **SMALL SPILL:** For a small spill, take up material with an absorbent such as clay or sand and dispose of properly per local, state, and federal regulations.

LARGE SPILL: Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike and contain spilled material. Remove with vacuum trucks or pump to storage/salvage containers. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Consult an expert on disposal of recovered material and ensure conformity to local, state, and federal regulations.

Waste Disposal Method

Any approved method for dilute cleaner, surfactants are highly biodegradable. Dispose in accordance to local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing

Keep container closed. Handle and open container with care. Store in a cool, well vented location. Place away from incompatible materials. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Storage Temperature: 70°F minimum to 125°F maximum

Loading Temperature: 70°F minimum to 150°F maximum

Section VIII — Control Measures

Respiratory Protection (Specify Type): Not required unless product mist or vapor is created. Prevent aerosol inhalation.

Use a NIOSH-Approved respirator as required to prevent overexposure. In accord with 20CFR 1910.134, use either atmosphere-supplying or air-purifying respirator for organic vapors. For EO: If occupational exposure may or does exceed 1 ppm, respiratory protection is required.

Use a NIOSH-Approved, atmosphere-supplying, full face piece respirator in pressure demand mode >50 ppm. NIOSH has approved full face-piece canister respirator with an end of service life indicator for >50ppm.

| | | |
|--------------------|--|------------------------|
| Ventilation | Local Exhaust Recommended | Special None |
| | Mechanical (General) Recommended | Other None |

Protective Gloves

Nitrile/Neoprene.

Eye Protection

Safety glasses with side shields or chemical goggles. Face shield.

Other Protective Clothing or Equipment

Clean, long-sleeved clothing. Rubber boots.

Work/Hygiene Practices

Avoid contact with eyes, skin, and clothing. Where contact may occur, wear long sleeves, chemical resistant gloves (nitrile or neoprene), goggles, and face shield. Where concentrations in air may exceed the limits provided in this section, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation. Wash all contaminated clothing before re-use.