

MATERIAL SAFETY DATA SHEET

Citric Acid 2M Demulsifier

SECTION 1 . Product and Company Identification

Product Name and Synonym: Citric Acid 2M Demulsifier
Product Code: 151-20-1
Material Uses:
Manufacturer: OFI Testing Equipment Inc.
11302 Steeplecrest Dr.
Houston, TX 77065
(877) 837-8683
Entry Date : 4/22/2010
Print Date: 6/6/2011
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	2
Flammability:	2
Reactivity:	0
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4	
NA=Not Applicable NE=Not Established	

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview:Warning! Flammable Liquid And Vapor. Harmful If Swallowed Or Inhaled. Causes Irritation To Skin And Respiratory Tract. Affects Central Nervous System. May Be Harmful If Absorbed Through Skin. Causes Severe Eye Irritation.

Inhalation:Inhalation of Vapors Irritates the Respiratory Tract. Exposure to High Concentrations has a Narcotic Effect, Producing Symptoms of Dizziness, Drowsiness, Headache, Staggering, Unconsciousness and Possibly Death.

Ingestion:Can Cause Drowsiness, Unconsciousness, and Death. Gastrointestinal Pain, Cramps, Nausea, Vomiting, and Diarrhea may also Result. The Single Lethal Dose for a Human Adult = About 250 mL (8 oz.)

Skin:May Cause Irritation with Redness and Pain. May be Absorbed Through the Skin with Possible Systemic Effects.

Eye ContactVapors Cause Eye Irritation. Splashes Cause Severe Irritation, Possible Corneal Burns and Eye Damage.

Chronic Exposure:Chronic Exposures may Cause Skin Effects.

Aggravated by Exposure:Persons with Pre-Existing Skin Disorders or Impaired Liver, Kidney, or Pulmonary Function may be More Susceptible to the Effects of this Agent.

SECTION 3 MIXTURE COMPONENTS

Citric Acid 2M Demulsifier

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Citric Acid Anhydrous	CAS# 77-92-9	20 - 25%	W/V	OSHA PEL 5 mg/m ³ (respirable dust)
<input checked="" type="checkbox"/>	Isopropyl Alcohol (2-propanol)	CAS# 67-63-0	10 - 15%	V/V	OSHA TWA 400 ppm, STEL 500 ppm
<input type="checkbox"/>	Soy Gold 1000 Solvent (Fatty Acid Methyl Ester)	CAS# 67784-80-9	2 - 4%	V/V	None Established
<input type="checkbox"/>	Tetrahydrofurfuryl Alcohol	CAS# 97-99-4	10 - 15%	V/V	OSHA TWA 200 ppm (590 mg/m ³)
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	41 - 58%	V/V	None Established

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder, or appropriate foam
 releases acrid fumes in a fire

Fire / Explosion Hazards:

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES
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ventilate area of spill or leak. Remove all sources of ignition. Use non sparking tools and equipment. Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer!

US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in

Citric Acid 2M Demulsifier

Excess of Reportable
Quantities.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, sparks flame or static electricity.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Information not available	Percent Volatile by Volume:	Information not available
Boiling Point:	Information not available	Evaporation Rate	not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Information not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Information not available
Appearance /Odors:	tan liquid / rubbing alcohol odor	Upper Flamm. Limit in Air	Information not available
Flash Point:	54°F (12°C) CC		
Specific Gravity:	not available		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Temperature extremes, incompatibilities
Materials to Avoid: Exposure to flames, moisture, oxidizers, metal nitrate
Hazardous Decomposition Products: releases acrid smoke and fumes in fire
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

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SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- 3

SECTION 12 Ecological Information

When Released to the Soil and Water, this Material may Evaporate to Moderate Extent. When Released into the Soil, This Material may Leach into Groundwater. When Released into the Water, This Material is Expected to have a Half Life Between 1 and 10 Days.

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Flammable liquid n.o.s. (Isopropanol), 3,
UN1993, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
Isopropyl Alcohol (67-63-0)
Citric Acid (77-92-9)
Tetrahydrofurfuryl alcohol(97-99-4)
Methyl Ester of Canola Oil (67784-80-9)

TSCA	Yes	Yes	Yes	Yes
EC	Yes	Yes	Yes	Yes
Japan	No	Yes	Yes	Yes
Australia	Yes	Yes	Yes	Yes

Chemical Inventory Status –
Part 2:Ingredient
Isopropyl Alcohol (67-63-0)
Citric Acid (77-92-9)
Tetrahydrofurfuryl alcohol(97-99-4)
Methyl Ester of Canola Oil (67784-80-9)

Korea	Yes	Yes	Yes	Yes
DSL	Yes	Yes	Yes	Yes
NDSL	No	No	No	No
Phil.	Yes	Yes	Yes	Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Isopropyl Alcohol (67-63-0)
Citric Acid (77-92-9)
Tetrahydrofurfuryl alcohol(97-99-4)
Methyl Ester of Canola Oil (67784-80-9)

RQ	No	No	No	No
TPQ	No	Yes	No	No
List	Yes	No	Yes	No
Chemical Catg	No	No	No	No

Federal, State &
International Regulations –
Part 2:Ingredient
Isopropyl Alcohol (67-63-0)
Citric Acid (77-92-9)
Tetrahydrofurfuryl alcohol(97-99-4)
Methyl Ester of Canola Oil (67784-80-9)

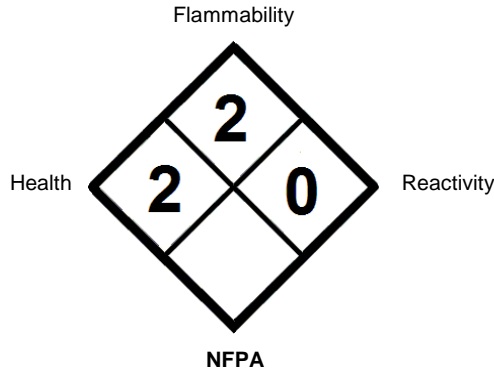
CERCLA	No	No	No	No
261.33	No	No	No	No
8(d)	No	No	No	No

SECTION 16 Additional Information

Warning! Flammable liquid and vapor. Harmful if swallowed or inhaled.

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Causes irritation to skin and respiratory tract. Affect CNS. May be harmful if absorbed through the skin. Causes severe eye irritation. Ingestion may cause drowsiness, unconsciousness and death. GI pain, cramps, nausea vomiting and diarrhea may result. The single lethal dose for a human adult = about 250 ml. (8 oz). May be irritating to eyes skin and respiratory tract. Conditions aggravated/target organs: Persons with pre-existing eye, skin, or respiratory conditions may be more susceptible.



Revisions

5/26/2010	0.1	updated msds to 16 section from 10 section msds. STN
6/3/2011	0.2	Rev 0.2, revised DOT information and data in section 9. STN

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.