



Univar USA Inc Material Safety Data Sheet

MSDS No:

Version No:

Order No:

Univar USA Inc., 17425 NE Union Hill Rd., Redmond WA 98052
(425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call
Chemtrec - (800) 424-9300

MULTIWET MO-70E-LQ-(AP)

Material Safety Data Sheet
Date(s):: 2010-05-13 14:38:00
1
MSDS#: SP47479

SAP CODE: SP47479

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	MULTIWET MO-70E-LQ-(AP)
Product Use	Surfactant
Address/Telephone number	Croda Inc North American Headquarters & Innovation Center 300-A Columbus Circle Edison, NJ 08837-3907 Croda Operator (Mon.-Fri., 9:00 AM - 5:00 PM Eastern): (732) 417-0800
	Transportation Emergency Involving Chemical Spills, Leaks, Fires, or Accidents (24 hr.): (800) 424-9300
	Croda Inc is an international business of Croda PLC.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	% (w/w)	OSHA PEL	ACGIH TLV
Diocetyl sodium sulfosuccinate	577-11-7	---	No PEL established	No TLV established
Ethanol	64-17-5	---	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA

Ingredients not precisely identified are proprietary or nonhazardous.
Values are not product specifications.

3. HAZARDS IDENTIFICATION

Emergency Overview

Color	Colorless
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Form Liquid_
Odor No data.

MAY CAUSE SKIN IRRITATION.
FLAMMABLE LIQUID.
INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION.
MAY BE HARMFUL IF SWALLOWED.
CAUSES EYE IRRITATION

No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on the properties of its components.

Route of exposure Eye contact Skin contact Inhalation

Eye contact	This material will cause eye irritation following contact.
Skin contact	Causes skin irritation. No toxic effects are expected if absorbed through the skin.
Inhalation	Vapors and aerosols will probably irritate respiratory passages. At high concentrations, vapors or aerosols of the solvent can produce respiratory and central nervous system depression, headache, dizziness, and nausea.
Ingestion	In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product. May be harmful if swallowed. Adverse responses to ethanol following excessive acute exposures can include initial excitation followed by ataxia, depression, prostration, narcosis, and death. Chronic ingestion of ethanol may cause damage to the liver, heart, and gastrointestinal tract.

4. FIRST AID MEASURES

Eye contact	Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.
Skin contact	Wash material off of the skin with soap and

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Inhalation	plenty of water. Get medical attention. Wash contaminated clothing and decontaminate footwear before reuse. Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
Ingestion	DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash Point (°F)	81(closed cup)
Flash Point (°C)	27(closed cup)
Autoignition Temperature (°F)	No data.
Autoignition Temperature (°C)	No data.
Flammable Limits	No data.
Extinguishing Media	Water fog, alcohol foam, carbon dioxide, dry chemical.
Special fire-fighting protective equipment	A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
Fire and explosion hazards	Flammable liquid.
Explosion data	
Sensitivity to mechanical impact	No data.
Sensitivity to static discharge	No data.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Refer to section 8 for proper personal protective equipment.
Steps to be taken in case material is released or spilled	Contain spill. Eliminate sources of ignition and ventilate spill area. Soak up material with absorbent and, using nonsparking equipment, shovel into a chemical waste container. Keep out of sewers and drains.

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7. HANDLING AND STORAGE

Handling

Follow procedures specified in the National Fire Protection Association Codes and Standards for handling flammable liquids.
Keep away from heat, sparks, and open flame. Ground tankers during discharging/filling. Take precautionary measures against static discharges.
Prevent eye contact.
Prevent skin contact.

Storage

Do not swallow.
Store in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

OSHA PEL

Component Name
Ethyl alcohol (Ethanol)

Exposure limits
1000 ppm TWA; 1900 mg/m3 TWA

Notes

ACGIH TLV

Component Name
Ethanol

Exposure limits
1000 ppm TWA

Notes

Engineering controls

Eye protection

Protective clothing

Respiratory protection

Provide adequate ventilation.
Chemical tight goggles.
Impervious gloves. Wear impervious gloves.
If needed, use NIOSH certified respirator for organic vapors.
Eyewash and safety shower easily accessible to the work area.

Other

9. PHYSICAL AND CHEMICAL PROPERTIES

Color

Colorless

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Form	Liquid_
Odor	No data.
pH	5 - 7(1% In water)
Boiling Point (°F)	173
Boiling Point (°C)	78
Flash Point (°F)	81(closed cup)
Flash Point (°C)	27(closed cup)
Autoignition Temperature (°F)	No data.
Autoignition Temperature (°C)	No data.
Flammable Limits	No data.
Explosive Properties	No data.
Oxidizing Properties	No data.
Vapor Pressure (mmHg)	No data.
Vapor Density	No data.
Specific Gravity	~ 1.08@ 25 °C
Solubility (water)	No data.
Solubility (other)	No data.
Partition Coefficient	No data.
Relative evaporation rate	Negligible
% Volatile by volume	~ 30

Values are not product specifications.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Strong acids. Alkaline materials.
Conditions to avoid	None known.
Hazardous decomposition products	Carbon dioxide, carbon monoxide. Sulfur oxides.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

No data available on this material.

Chronic	Chronic ingestion of ethanol may cause damage to the liver, heart, and gastrointestinal tract.
Reproductive toxicity/	Ethanol overexposure has been

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teratogenicity	associated with abnormal fetal formation, growth retardation, neurological damage, and behavioral alterations in children with fetal alcohol syndrome.
Toxicologically synergistic products	None known.

12. ECOLOGICAL INFORMATION

No data is available on this product.

13. DISPOSAL CONSIDERATIONS

RCRA (Resource Conservation and Recovery Act) Classification:

Specifically Listed Not applicable.

Wastes

Characteristic Wastes	Ignitability	Because of a flash point below 140 deg F, discarded product is a hazardous waste, number D001, under RCRA, 40 CFR 261.21. Dispose of in a facility permitted for hazardous waste.
	Corrosivity	Not applicable.
	Reactivity	Not applicable.
	Toxicity	Not applicable.

Disposal method	Disposal should be in accordance with local, state or national legislation. May contain explosive vapors. Keep away from heat, sparks and flames. Do not weld or use a cutting torch on or near container.
Container disposal	Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

14. TRANSPORT INFORMATION

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Department of Transportation:

Regulated.

Proper Shipping Name	Flammable liquid, n.o.s. (contains ethanol)
Hazard Class	3
UN number	UN1993
UN Packing Group	PG III

TDG (Transportation of Dangerous Goods):

Regulated.

Proper Shipping Name	Flammable liquid, n.o.s. (contains ethanol)
Hazard Class	3
UN number	UN1993
UN Packing Group	PG III

UN number	UN1993
UN Packing Group	PG III
UN Hazard Class-Primary	3
Proper Shipping Name	Flammable liquid, n.o.s. (contains ethanol)
IMDG Class-Primary	3
IATA Class-Primary	3
ADR/RID Class	3

15. REGULATORY INFORMATION

Inventory Status

EU (REACH)	Compliant.
USA (TSCA)	Compliant.
Canada (DSL)	Compliant.
Australia (AICS)	Compliant.
Japan (ENCS)	Compliant.
China (IECSC)	Compliant.
Korea (ECL)	Compliant.
Philippines (PICCS)	Compliant.

OSHA Hazard Communication Standard,

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29 CFR 1910.1200, Hazard Summary:

Health Hazards Irritant (eye)
Physical Hazards Flammable liquid.

WHMIS Classification

Class D, Division 2 -- Toxic. Class B, Division 2-
- Flammable liquid (CPR35).

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This material contains the following chemicals subject to the reporting requirements of SARA 313: No 313-listed chemicals in this product

SARA 311/312 Hazard Categories:

Immediate	Y
Delayed	Y
Fire	Y
Pressure	N
Reactivity	N

State Regulations:

California Proposition 65: WARNING. This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm. Values listed are percent weight, i.e 0.0001 = 1ppm.

Ethyl alcohol	12.000000
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California Director's List	Ethyl alcohol
New Jersey Hazardous Substances	Ethyl alcohol
Pennsylvania State Chemicals Regulated as Hazardous	Ethanol

16. OTHER INFORMATION

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the

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product MSDS.

HMIS Information

Health	2
Flammability	3
Physical Hazards	0

The HMIS ratings displayed above are from the HMIS III Third Edition. There have been significant changes made to the system. "Physical hazard" stands for physical hazard as defined in the OSHA Hazard Communication Standard and replaces the former code for reactivity. For a more detailed explanation of the system and the ratings, please contact our Product Safety and Regulatory Affairs group.

NFPA Information

Health	2
Flammability	3
Instability	0

This information is intended solely for the use of individuals trained in the particular hazard rating system.

The following sections contain revisions or new statements:

1.

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See also www.croda.com

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For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

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