

SECTION I

CHEMICAL, PRODUCTS & COMPANY IDENTIFICATION

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24-HOUR EMERGENCY RESPONSE
 U.S.A. (Chemtrec) 1-800-424-9300
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SUBSTANCE: WC-393 **CREATION DATE:** 03/19/93
TRADE NAMES/SYNONYMS: AFSNA703 **REVISION DATE:** 05/03/06
CHEMICAL NAME: MIXTURE **LAST REVIEW DATE:** 05/03/06

SECTION II COMPOSITION and INFORMATION ON INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	SARA TITLE III SECTION 313
Polypropylene glycol monobutyl ether	> 90%	9003-13-8	NA
Molybdenum Disulfide	< 10%	1317-33-5	NA

SARA TITLE III Sections 302 and 304 This product is not listed at present levels that require reporting as a hazardous substance in 40 CFR Part 355.
 Section 313 This product does not contain toxic chemicals at levels that require reporting under 40 CFR Part 372.

EXPOSURE LIMIT INFORMATION

Polypropylene glycol monobutyl ether - Not determined by OSHA or ACGIH

SECTION III PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE (Color, Physical State)	Grayish liquid	POUR POINT (freezing point)	< -70°F (<-56.7°C)
ODOR	Mild	SPECIFIC GRAVITY (Water=1)	1.04
EVAPORATION RATE (Butyl Acetate = 1)	NIL	pH-VALUE	ND
BOILING POINT	> 392°F (> 200°C) (decomposes)	VAPOR PRESSURE	< 0.001 Kpa < 0.01 mmHG
FLASH POINT Cleveland Open Cup (ASTM D 92) Pensky-Martens closed cup (ASTM D 93)	< 430°F (<221°C) < 305°F (<152°C)	VAPOR DENSITY (Air = 1)	> 1.0
IGNITION TEMPERATURE (auto-ignition temperature)	Refer to Section VIII, Control Measures	VISCOSITY	ND
		WATER SOLUBILITY	< 0.1%

SECTION IV

FIRE and EXPLOSION HAZARD DATA

UPPER and LOWER EXPOSURE LIMITS

UEL: Not determined LEL: Not determined (None determined by OSHA or ACGIH)

FIRE FIGHTING MEASURES

UNUSUAL HAZARDS

This material may produce a floating fire hazard in extreme fire conditions. Avoid breathing hazardous vapors. Combustion may produce the following products:

Carbon Monoxide and/or Carbon Dioxide

EXTINGUISHING AGENTS

Small Fires use: Carbon Dioxide Dry Chemical
Large Fires Use: Water spray All-purpose type foam

PERSONAL PROTECTIVE EQUIPMENT

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH Approved or equivalent) or any supplied-air respirator that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Wear full protective gear.

FIREFIGHTING

Move container from fire area, if it can be done without risk. Do not scatter spilled material with high-pressure water streams or direct a solid stream of water or foam into hot, burning pools. This may cause frothing and increase fire intensity. Dike fire-control water for later disposal.

SECTION V

REACTIVITY DATA

STABILITY

Stable under normal temperatures and pressures.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may release toxic and/or hazardous gases.

HAZARDOUS POLYMERIZATION

Will not occur under normal temperatures and pressures.

INCOMPATIBILITY

Normally unreactive, however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.

SECTION VI

HEALTH HAZARD DATA and FIRST AID MEASURES

PRIMARY ROUTES OF ENTRY Material may enter through eye contact, inhalation and skin contact.

HEALTH HAZARDS

- EYE CONTACT* May cause stinging and pain with excess tearing and mild redness. If wearing contact lenses, remove them and wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). Seek medical attention.
- INGESTION* Treat symptomatically . If victim is fully conscious, give two glasses of water. Do not induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. If signs or symptoms of toxicity are present, seek medical attention immediately.
- INHALATION* Short-term harmful health effects are not expected from vapor generated at ambient temperature. Overexposure to vapor, aerosol or mist generated at high temperatures may cause respiratory tract irritation, dizziness and nausea. Remove from exposure area to fresh air immediately. If breathing has stopped, have a qualified person perform artificial respiration. Keep the victim warm and at rest. Seek medical attention immediately.
- SKIN CONTACT* Irritation is unlikely after brief contact. Prolonged contact may produce redness, itching, a burning sensation, drying and flaking of the skin. Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evident of chemical remains (approximately 15 to 20 minutes). Apply skin moisturizer. Seek medical attention immediately.
- NOTE TO PHYSICIAN* Low toxicity by swallowing. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Skin contact may aggravate an existing dermatitis.

TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat	9100 mg/kg	LD50 rabbit	23900 mg/kg
Acute dermal toxicity	LD50 rabbit	20 gm/kg		
Irritant effect on the skin	rabbit-open skin, mild	500 mg		

REGULATORY INFORMATION

	HMIS	NFPA
Health	1	1
Flammability	1	1
Special	0	0

SECTION VII

HANDLING and SAFE USE INFORMATION

SPILLS, LEAKS

PERSONAL PROTECTION

Wear a MSHA/NIOSH approved (equivalent) half-mask, air-purifying respirator. Wear compatible, chemically resistant gloves. Wear protective clothing, including chemically resistant apron or other impervious clothing and rubber overshoes or rubber boots. After cleanup, remove all contaminated clothing immediately and bathe thoroughly.

CLEANUP PROCEDURES

This product has very low solubility in water and will float on the surface. Small spills can be flushed with large amounts of water. Avoid drainage of large spills to sewers or to natural waters. Stop leak, if it can be done without risk. Take up with sand or other absorbent material and transfer liquids and solid diking material to separate, suitable containers for recovery or disposal. Isolate area during cleanup. Dispose of in accordance with local, state, and federal laws and regulations.

STORAGE CONDITIONS

Store away from incompatible substances. Keep container closed when not in use.

HANDLING PRECAUTIONS

Avoid contact with eyes, skin and clothing. Avoid breathing vapor, aerosol and mist. Do not swallow. Keep container closed when not in use. Use with adequate ventilation. Wash hands thoroughly after handling.

DISPOSAL PROCEDURES

Incinerate in a furnace or otherwise dispose of in accordance with applicable Federal, State and local requirements and regulations. Empty containers should be recycled or disposed of through an approved waste management facility. Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options under the rules, regulations and/or laws applicable to your area.

SECTION VIII

CONTROL MEASURES

PERSONAL PROTECTIVE CLOTHING (PPE)

RESPIRATOR

None required for low temperatures. If used at high temperatures, wear a MSHA/NIOSH approved (or equivalent) air-purifying respirator.

GLOVES

Wear nitrile or neoprene rubber gloves to protect against permeation. Gloves should be removed and replaced immediately if there is any sign of degradation or chemical breakthrough.

EYE PROTECTION

Wear splash proof chemically resistant goggles.

OTHER CLOTHING

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

EYE WASH STATION

Facilities storing or utilizing this material should be equipped with an eye wash station.

OTHER PPE

It is recommended that facilities have a safety shower in the event of skin contact by splashing or spill.

VENTILATION

General (mechanical) room ventilation is satisfactory for use at low temperatures. If used at high temperatures, special local ventilation is recommended at points where vapors can be expected to escape to the workplace air.

ENGINEERING CONTROLS

PROCESS HAZARD - Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

HYGIENE

Always practice good hygiene by washing hands thoroughly after handling material.

SECTION IX

MISCELLANEOUS INFORMATION and PRECAUTIONS

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ECOLOGICAL INFORMATION

Information on elimination (persistence and degradability)

Biological Oxygen Demand (BOD) (% oxygen consumption) Day 5 < 5%
Day 10 < 5%
Day 20 < 5%

Ecotoxicological effect

Further information on ecology

Theoretical Oxygen Demand (THOD) calculated : 2.43 mg/mg

CERCLA (40 CFR 302.4)

The following components of this product are specifically listed as hazardous substances in 40 CFR 302.4 (unlisted hazardous substances are not identified) and are present at levels which could require reporting:
None

(TSCA) TOXIC SUBSTANCES CONTROL ACT

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

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SECTION X

TRANSPORTATION INFORMATION

NON-BULK, Proper Shipping Name: Not regulated

BULK, Proper Shipping Name: Not regulated

The information contained herein is believed to be true and accurate, but is not guaranteed or warranted, either expressed or implied, whether originating with the company or not. Customers are advised to make their own determination as to the suitability for their particular application and to confirm that information is current.