

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Uniplex MS-70

Synonyms: 70% Toluenesulfonamide-Formaldehyde in Butyl Acetate

MANUFACTURER:

Unitex Chemical Corporation

520 Broome Road

P.O. Box 16344

Greensboro, NC 27406

EMERGENCY TELEPHONE NUMBERS:

Emergency Telephone Number: CHEMTREC 1 (800) 424-9300
International 1 (703) 527-3887

Telephone Number for Information:
(336) 378-0965 (Monday - Friday 8:00 a.m. - 5:00 p.m.)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>% (optional)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS NO.</u>
Contains reacted Formaldehyde which may result in trace	< 0.07%	0.75 ppm 8 Hr. TWA	0.75 ppm TWA	50-00-0
The quantity of Formaldehyde in this product is below that considered a health hazard (29 CFR 1910.1048).	(typically 100-200 ppm)	2 ppm 15 min. STEL	2 ppm TWA	
Butyl Acetate	30%	200 ppm STEL	NA	123-86-4

3. HAZARDS IDENTIFICATION

Emergency Overview: Clear viscous liquid may be irritating to mucous membranes, skin and eyes. Combustible liquid.

Potential Health Effects: High vapor concentrations are irritating to nose, throat, lungs, skin and eyes.

Eye Contact: Irritating to eyes. Symptoms may include stinging, tearing, redness and swelling.

Skin Contact: May cause mild irritation. Prolonged or repeated exposure may dry the skin. Symptoms include redness, burning, drying and cracking of skin. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal use conditions.

Ingestion: DO NOT INGEST. Single dose oral toxicity is low. Swallowing small amount during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

Chronic: Butyl Acetate has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance

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to these findings to humans is uncertain. This material is not listed as a carcinogen by IARC, NTP or OSHA.

4. FIRST AID MEASURES

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Eye Contact: Flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms persist, seek medical attention.

Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. Sticky residues may be removed with rubbing alcohol. If symptoms persist, seek medical attention.

Ingestion: Give individual two glasses of milk or water to drink. If symptoms develop, seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 130°F (54.4°C) Cleveland Open Cup. Combustible Liquid

General Hazard: Under fire conditions, toxic fumes of oxides of carbon and nitrogen may be formed.

Fire Fighting Instructions: Extinguishing media-- water fog or spray, dry chemical, alcohol foam, foam, or earth/mud. Formaldehyde vapors may be released on burning—wear self-contained breathing apparatus.

Hazardous Combustion Products : Vapors are heavier than air; flashbacks may occur.

6. ACCIDENTAL RELEASE MEASURES

Land Spill: Small spill-absorb liquid on vermiculite or other absorbent material. Large spill-eliminate all ignition sources. Exclude all persons not wearing protective equipment from area of spill. Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required. Pump or transfer spilled product to containers for recovery or disposal. Absorb unrecovered product and transfer contaminated absorbent, soil and other materials to containers for disposal. Dispose of in accordance with all local, state and federal regulations. Incineration is the preferred method of disposal.

Water Spill: Butyl Acetate has a high biological oxygen demand (BOD₂₀ 1.45g/g) and is expected to cause significant depletion in aquatic systems. It has a low potential to affect aquatic organisms. It is readily biodegradable and is not likely to bioconcentrate. Collect and place in containers as much of the spilled material as possible for later disposal.

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7. HANDLING AND STORAGE

Storage Temperature: Ambient

Storage Pressure: Ambient

General: Store away from heat and ignition sources.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: General area exhaust fans to maintain below PEL limits.

Personal Protection: Wear rubber or vinyl gloves. Wear splash proof goggles.

Respirator: Not required under normal use conditions. Self contained breathing apparatus in confined areas in accordance with 29 CFR 1910.1048.

Protective Clothing: Special clothing not required under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	: <u>13 @ 20°C</u>	Vapor Density (Air = 1)	: <u>>1</u>
Specific Gravity	: <u>1.2 (Water = 1)</u>	Odor	: <u>Pleasant fruity odor</u>
Solubility in Water	: <u>Nil</u>	Appearance	: <u>Light colored viscous liquid</u>
pH	: <u>NA</u>	Physical State	: <u>Viscous liquid</u>
Boiling Point	: <u>126°C for butyl acetate</u>	Evaporation Rate	: <u>1 (Butyl Acetate = 1)</u>

10. STABILITY AND REACTIVITY

General: Stable

Incompatible Materials and Conditions to Avoid: Strong oxidizing agents, strong acids, strong bases, nitrates

Hazardous Decomposition: Carbon monoxide, carbon dioxide, ammonia, amines.

11. TOXICOLOGICAL INFORMATION

For Butyl Acetate: LD₅₀ 14g/kg Rats

Formaldehyde is a suspect human carcinogen. IRAC Group 2B. Listed by NTP as a reasonably expected to be a carcinogenic. LD₅₀ 500 mg/kg Rats.

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12. ECOLOGICAL INFORMATION

This product is not an environmentally hazardous material.

13. DISPOSAL CONSIDERATIONS

Disposal by incineration in accordance with all Federal, State and Local regulations is recommended.

14. TRANSPORT INFORMATION

DOT Shipping Name:

Enamel Solution 2, UN 1263, PGIII, RQ (contains 30% Butyl Acetate) Notify NRC/911 ERG #26

DOT Hazardous Classification: 3

15. REGULATORY INFORMATION

Registered under EPA Toxic Substances Control Act.

Sara Title III, Section 313: Not reportable

Sara Title III, Section 311: Reportable, RQ 5000 lb. (for Butyl Acetate)

Sara Title III, Section 312: Reportable

Sara Title III, Section 304: Reportable, RQ 5000 lb. (for Butyl Acetate)

16. OTHER INFORMATION

Not considered a carcinogen by NTP, IARC or OSHA.

MSDS Status: Update to ANSI Z 400.1-1993

	HAZARDOUS RATINGS	
	NFPA	HMIS
Health	1	1
Flammability	2	2
Reactivity	0	0

Revision Summary:

3/14/05 New
6/16/09 Reviewed D.Young

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