

MATERIAL SAFETY
DATA SHEET

ATOTECH USA INC.
1750 OVERVIEW DRIVE
P.O. BOX 12000
ROCK HILL, S.C. 29731-2000

EMERGENCY TELEPHONE
NUMBER
8:00 am - 5:00 pm
(803) 817-3500

CHEMTREC - 24 HOURS
1-800-424-9300

NAME USED ON LABEL: ZYLITE HT BRIGHTENER
CHEMICAL NAME (if single substance): Mixture
CHEMICAL FAMILY: Mixture
FORMULA: Proprietary

HAZARDOUS INGREDIENTS

IDENTITY	CAS No.	%	EXPOSURE LIMITS
Isopropoxyethanol	109-59-1	25-40	ACGIH-TWA(1): 106 mg/m3
(1) ACGIH Skin designation.			

PHYSICAL DATA

BOILING POINT: N/A
SPECIFIC GRAVITY: ~1.02
VAPOR DENSITY (Air=1): N/A
% VOLATILE: N/A
pH: ~6.2

FREEZING POINT: N/A
VAPOR PRESSURE @ 20 C: N/A
SOLUBILITY IN WATER: Soluble
EVAPORATION RATE
(Butyl Acetate=1): N/A

APPEARANCE: Clear, yellow liquid. Etheral odor.

FIRE AND EXPLOSION DATA

FLASH POINT (Test Method)	AUTOIGNITION TEMPERATURE	FLAMMABLE LTS.
>200 DEG F	N/A	LEL-N/A UEL-N/A

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, alcohol-type foam, or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Do not get material on skin or clothing. Avoid inhalation of fumes or mists. Stay upwind, out of low areas, and ventilate closed spaces before entering. Cool containers from the side with water until fire is out. Use water spray to reduce vapor; do not put water directly on leak or spill area. Keep combustibles away from spilled material. Self-contained breathing apparatus (SCBA) and chemical-protective clothing can be worn but may not provide adequate thermal protection for chemical fire unless stated by the manufacturer. Structural fire fighter's

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protective clothing may not be effective. Move containers from fire area, if possible to do so without risk.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evolves toxic gases during combustion.

HEALTH HAZARD DATA

EYE CONTACT: May cause irritation to the eyes and surrounding areas characterized by redness, swelling, tearing, and pain.

SKIN CONTACT: May cause irritation to the skin characterized by redness, swelling, and pain. May cause allergic skin reaction. May be harmful if absorbed through skin.

INHALATION: May cause irritation to the respiratory passages, including the nose, airway, and lungs characterized by sore throat, chest pain, cough, dizziness, headache, nausea, and shortness of breath.

INGESTION: May cause irritation to the mouth, throat, and stomach characterized by sore throat, abdominal pain, headache, nausea, vomiting, and diarrhea.

CHRONIC TOXICITY: Effects of long-term exposure to this product have not been determined.

CARCINOGENICITY:

	NTP	IARC	Other
Yes			
No	X	X	X

SUGGESTED FIRST AID

EYES: Immediately flush eyes with flowing water for at least 15 minutes while holding eyelids away from eyes. Seek medical attention, if irritation persists.

SKIN: Wash exposed areas thoroughly with soap and flowing water, while removing contaminated clothing and shoes. Seek medical attention.

INHALATION: Remove exposed individual from source of exposure. If breathing is difficult, oxygen may be administered by certified persons only. Artificial respiration may be performed only if

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exposed individual is not breathing. If breathing is difficult, seek medical attention.

INGESTION: Give 1 or 2 glasses of water or milk. Never give anything by mouth to an unconscious or convulsing person. DO NOT induce vomiting unless directed by a physician. Seek medical attention.

REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Excessive heat, flame

INCOMPATIBILITY (Materials to Avoid): oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SPECIAL PROTECTION INFORMATION

VENTILATION: Local exhaust or an enclosed handling system is highly recommended. Mechanical (general) ventilation is required.

RESPIRATORY PROTECTION: Use NIOSH/MSHA-approved respiratory protection if ventilation is inadequate.

EYE AND FACE PROTECTION: Chemical splash goggles & face shield. DO NOT WEAR CONTACT LENSES!

OTHER PERSONAL PROTECTION: Use additional personal protective clothing as required by user's application.

OTHER PROTECTIVE EQUIPMENT: An emergency eyewash and drench shower should be available in the immediate work area. Launder contaminated clothing before reuse.

SPECIAL PRECAUTIONS

HANDLING: Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Do not take internally. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact

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with oxidizing compounds. Emptied container retains vapor and product residue - Observe all label safeguards until container is cleaned, reconditioned or destroyed. Keep container tightly closed in an upright position.

STORAGE: Store in a cool, dry place away from incompatible material.

ENVIRONMENTAL INFORMATION

SPILL RESPONSE: Wear NIOSH/MSHA-approved respiratory protection and appropriate personal protective clothing to minimize skin & eye contact when cleaning spill. Do not get spilled material on skin or clothing; stop leak if you can do so without risk. Remove ignition sources from area where flammable vapors may exist. If necessary, dike area of spill to prevent spreading. If spill is large, cover liquid pools with foam to control vapors, pump liquid into a salvage tank, and retain for evaluation and/or disposal. Remaining material or small spills should be covered with sand, clay, or other noncombustible absorbent material. Using non-sparking tools, transfer absorbed material to a suitable container for disposal. CAREFULLY flush area where spill has occurred with water. Retain this water/residue mixture for evaluation and/or disposal. NOTE: Discharge to a public sewerage authority should coincide with all applicable local permits and notification requirements. May be hazardous to aquatic life if released to open waters.

RECOMMENDED DISPOSAL: Disposal of waste material from the use of this product may be subject to federal, state, and local regulations. Refer to Part 261 of 40 CFR for the applicability of federal regulations. Consult with your state and local governments for additional regulatory requirements. Disposal of this material must be in a manner compliant with all federal, state, and local regulations.

TRANSPORTATION

HAZARDOUS MATERIAL/DANGEROUS GOODS SHIPMENT IS INDICATED BY (X) BELOW:

(X) NOT REGULATED (NOTE: For reportable quantities which may apply, see Miscellaneous.)

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MISCELLANEOUS

EPA/DOT - REPORTABLE QUANTITY (RQ) FOR HAZARDOUS SUBSTANCES:

(X) There are no constituents in this product for which reportable quantities may be applicable.

EPA - Any release of hazardous substance(s) in a quantity equal to or exceeding the RQ in any 24-hour period requires the immediate notification of the National Response Center in Washington, D.C. at (800) 424-8802. Other notification requirements, such as state and local governments, may apply.

DOT - Any package containing a hazardous substance in a quantity equal to or exceeding the RQ is regulated as a hazardous material.

ADDITIONAL INFORMATION

RATINGS:	F	H	R	PPE	Spec Haz
HMIS	1	2	0	X	N/APP
NFPA	1	2	0	N/APP	N/APP

F= Flammability H=Health R=Reactivity
PPE= Personal Protection Equipment Spec Haz= Special Health Hazards
W=Water Reactive OX=Oxidizer * = Chronic Hazard

SARA Title III Classifications:	Yes	No
Immediate (Acute) Health . . .	X	
Delayed (Chronic) Health . . .		X
Sudden Release of Pressure . .		X
Reactive		X
Fire		X

Components of this product are identified below if they are present in excess of de minimus reporting levels. Components that are not required to be identified by specific chemical name may have a generic description.

SARA Title III Section 302 Extremely Hazardous Substances:
None

SARA Title III Section 313 Toxic Chemicals:
Glycol Ethers 25-40 %wt

STATE RIGHT-TO-KNOW

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Components of this product which are specifically identified in the ingredients section of this MSDS may be listed as hazardous by these and/or other states: New Jersey, Pennsylvania, Louisiana.

CAREFULLY READ THE FOLLOWING: The identification of ingredients in this document meets or exceeds the requirements set forth in 29 CFR, 40 CFR, et al. at the date of publication. Ingredients present in a mixture or solution which are generically identified or not referenced in this document are not regulatorily required to be specifically identified or referenced. The information contained herein should be provided to all those who will use, handle, store, transport, or may otherwise be exposed to this product.

We certify that all ingredients, whether identified in this MSDS or not, are on the TSCA inventory (for USA manufacture and/or sales only).

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Prepared by the Product Safety Department (PSD)

ISSUED: 11/09/1998

SUPERSEDES: 12/17/1998

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