

MATERIAL SAFETY DATA SHEET

TERBUTHYLAZINE

SECTION 1:

IDENTIFICATION

Company Name: Address: Phone No. Fax No. Emergency Phone No. Date Prepared: Date Revised:	Chemworld 885 Woodstock Road Ste 430-111 Roswell, GA 30075 800.658.7716 877.209.1556 CHEM-TEL 800-255-3924 1/27/09 5/26/09
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SECTION 2:

INGREDIENTS

<u>MATERIAL</u>	<u>CAS NO.</u>	<u>%</u>	<u>TLV</u>
1,3,5-TRIAZINE-2, 4-DIAMINE, 6-CHLORO-N- (1,1-DIMETHYLETHYL)-N'-ETHYL-	5915-41-3	4.0	NONE ESTAB.

SECTION 3:

HEALTH HAZARDS

Emergency Overview: Ingestion: Inhalation: Skin Contact: Eye Contact: Chronic Effects: Other Information:	PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN OR EYE IRRITATION. THE HEALTH HAZARDS OF THIS PRODUCT SHOULD BE LOW UNDER NORMAL INDUSTRIAL AND COMMERCIAL USES. SLIGHTLY TOXIC IF SWALLOWED. NO KNOWN HAZARDS IN NORMAL INDUSTRIAL USE. AVOID BREATHING VAPORS OR MISTS. PROLONGED OR EXCESSIVE INHALATION MAY CAUSE COUGHING OR SNEEZING. A SINGLE, PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION. MAY CAUSE SLIGHT IRRITATION. ANIMALS STUDIES INDICATED EFFECTS ON THE LIVER, TESTES, THYMUS AND STOMACH WHEN PRODUCT WAS APPLIED DERMALLY. THE HEALTH HAZARDS OF THIS PRODUCT SHOULD BE LOW UNDER NORMAL INDUSTRIAL AND COMMERCIAL USES.
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SECTION 4:

FIRST AID

Ingestion: Inhalation: Skin Contact: Eye Contact: Notes to Physician:	DRINK SEVERAL GLASSES OF WATER TO DILUTE. GET MEDICAL ATTENTION. REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. WASH WITH PLAIN WATER OR SOAP AND WATER. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS AND SYMPTOMS OF DISTRESS IN THE PATIENT. CONSIDERATION SHOULD BE GIVEN TO THE POSSIBILITY THAT OVEREXPOSURE TO MATERIALS OTHER THAN THIS PRODUCT MAY HAVE OCCURRED. TREAT SYMPTOMATICALLY.
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SECTION 5:

FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method:	>93.9°C (201°F)/PMCC
Upper/Lower Limit in Air:	N.A./N.A.
Limit in Air:	WATER, CARBON DIOXIDE, FOAM, OR DRY POWDER.
Extinguishing Media:	AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT (FIRE). DIKE AND COLLECT WATER USED TO FIGHT FIRE. CONTAMINATED EXTINGUISHING WATER MUST BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.
Procedures:	WHEN WATER HAS EVAPORATED, THE RESIDUE WILL BURN. NO KNOWN UNUSUAL HAZARDS IN A FIRE/EXPLOSION SITUATION.
Unusual Hazards:	IF WATER IS EVAPORATED, OXIDES OF CARBON, NITROGEN, AND SULFUR MAY BE PRODUCED ALONG WITH FUMES AND SMOKE.
Combustion Products:	

SECTION 6:

ACCIDENTAL RELEASE MEASURES

Personal Precautions:	WEAR PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. ELIMINATE ALL SOURCES OF IGNITION - HEAT, SPARKS, FLAME, ELECTRICITY, IMPACT AND FRICTION. STOP THE SOURCE OF THE LEAK OR RELEASE. CLEAN UP RELEASES AS SOON AS POSSIBLE, OBSERVING PRECAUTIONS IN EXPOSURE CONTROLS/PERSONAL PROTECTION. CONTAIN LIQUID TO PREVENT FURTHER CONTAMINATION OF SOIL, SURFACE WATER OR GROUNDWATER.
Initial Containment:	CONTAIN SPILLED MATERIAL. ABSORB SPILLS WITH INERT MATERIAL. SOLUTIONS EXTREMELY SLIPPERY WHEN SPILLED.
Large Spills Procedure:	CONTAIN SPILLED LIQUID WITH SAND OR EARTH. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. TREAT OR DISPOSE OF WASTE MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL, AND NATIONAL REQUIREMENTS.
Small Spills Procedure:	CLEAN UP AREA BY ABSORBENT MATERIAL.

SECTION 7:

HANDLING AND STORAGE

Handling:	FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED AS IT MAY RETAIN PRODUCT RESIDUES. AVOID PROLONGED CONTACT WITH SKIN OR EYES. WASH HANDS THOROUGHLY AFTER HANDLING. PROVIDE APPROPRIATE VENTILATION.
Storage:	KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. RECOMMENDED STORAGE TEMPERATURES: 32° F TO 100° F (0° C TO 38° C). AVOID EXTREME TEMPERATURES – PREVENT FROM FREEZING. DO NOT STORE NEAR COMBUSTIBLE MATERIALS.

SECTION 8:

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER. NORMAL VENTILATION SATISFACTORY.
Equipment for Personal Protection:	<i>EYE/FACE:</i> CHEMICAL GOGGLES ARE RECOMMENDED TO AVOID CONTACT WITH EYES. <i>SKIN:</i> WEAR PROTECTIVE GLOVES TO MINIMIZE SKIN CONTAMINATION. SELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, APRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION. <i>RESPIRATORY:</i> WHEN THERE IS POTENTIAL FOR AIRBORNE EXPOSURES IN EXCESS OF APPLICABLE LIMITS, WEAR NIOSH/MSHA APPROVED RESPIRATORY

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	PROTECTION.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	WHITE LIQUID
Odor:	MILD
pH (undiluted):	7-9
Specific Gravity:	1.0 @77° F (25° C)
Density:	8.33 lbs/gal
Solubility in Water:	COMPLETE
Boiling Point:	>212° F @760 mm Hg
Percent Volatile:	>80 (WATER)
Vapor Pressure (mmHg):	<17.5 mm Hg @ 68° F
Vapor Density:	400 – 1,000 CPS @ 25° C
Evaporation Rate:	<1 (butyl acetate = 1)

SECTION 10: STABILITY AND REACTIVITY

Stability:	STABLE
Conditions to Avoid:	NONE
Hazardous Polymerization:	STABLE
Conditions to Avoid:	ELIMINATE ALL SOURCES OF IGNITION – HEAT, SPARKS, FLAME, ELECTRICITY, IMPACT AND FRICTION.
Incompatibility:	AVOID CONTACT WITH STRONG OXIDIZING AGENTS, ALKALIES OR ACIDS.
Hazardous Decomposition Products:	DECOMPOSITION MAY PRODUCE OXIDES OF CARBON, NITROGEN AND SULFUR, FUMES AND SMOKE.

SECTION 11: TOXICOLOGICAL INFORMATION

Material & Tests:	NO INFORMATION AVAILABLE
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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	NO INFORMATION AVAILABLE
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SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations: Procedures:	THIS PRODUCT IS NOT AN EPA HAZARDOUS WASTE. OPEN DUMPING OR BURNING OF THIS MATERIAL IS PROHIBITED. AVOID DISPOSAL INTO WASTE WATER TREATMENT FACILITIES OR DISPOSE OF WASTE MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL, AND NATIONAL REQUIREMENTS.
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SECTION 14: TRANSPORT INFORMATION

Shipping Name:	NOT REGULATED BY US DOT
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SECTION 15:

REGULATORY INFORMATION

<u>Regulation</u> CERCLA (40 CFR302.4):	<u>Material</u> NONE	<u>RQ</u> NONE	<u>Max. %</u> NONE
SARA 302 (Sect. 355, Appendix A):	<u>Material</u> NONE	<u>TPQ</u> NONE	<u>Max. %</u> NONE
SARA 311/312:	<u>Categories</u> DELAYED HEALTH		
SARA 313 (40 CFR 372.45):	<u>Material</u> NONE		<u>Max. %</u> NONE
CWA (40 CFR 401.15):	NONE		
RCRA (40 CFR 261):	NONE		
OSHA (29 CFR 1910.1200):	ALL COMPONENTS LISTED UNDER THIS STANDARD ARE SHOWN IN SECTION 2 OF THIS MSDS.		
TSCA:	THIS PRODUCT IS SUBJECT TO REGULATION UNDER THE US FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT (FIFRA) AND IS THEREFORE EXEMPT FROM U.S. TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY LISTING REQUIREMENTS.		

SPECIAL STATE REGULATIONS

<u>STATE</u>	<u>INGREDIENT</u>	<u>%</u>	<u>REGULATORY DESIGNATION</u>
NONE			

SECTION 16 OTHER INFORMATION

SUGGESTED HAZARD RATINGS

<u>NFPA*</u>	<u>HAZARD</u>	<u>HMIS*</u>
1	HEALTH (Blue)	1
1	FIRE (Red)	1
0	REACTIVITY (Yellow)	0
	PERSONAL PROTECTION	B
	SPECIAL HAZARDS	

*Notes: 0 = Insignificant; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is prohibited by law.