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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

| | |
|---------------------------------|---|
| CATALOG #: | 00296 |
| NAME: | Tributylamine |
| SYNONYMS: | Tri- <i>n</i> -butylamine |
| 24 HOUR EMERGENCY TELEPHONE: | (800) 535-5053(USA) 352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS: | (800) 869-9290 |
| CUSTOMER SERVICE: | (630) 766-2112 |

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

FLAMMABLE LIQUIDS (CATEGORY 4), H227
ACUTE TOXICITY, ORAL (CATEGORY 4), H302
ACUTE TOXICITY, INHALATION (CATEGORY 1), H330
ACUTE TOXICITY, DERMAL (CATEGORY 2), H310
SKIN IRRITATION (CATEGORY 2), H315

SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 2), H401

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS
PICTOGRAM**



SIGNAL WORD DANGER

HAZARD STATEMENT(S)

| | |
|-------------|---|
| H227 | COMBUSTIBLE LIQUID |
| H302 | HARMFUL IF SWALLOWED. |
| H310 + H330 | FATAL IN CONTACT WITH SKIN OR IF INHALED. |
| H315 | CAUSES SKIN IRRITATION. |
| H401 | TOXIC TO AQUATIC LIFE. |

PRECAUTIONARY STATEMENT(S)

| | |
|--------------------|---|
| P210 | KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. NO SMOKING. |
| P260 | DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY. |
| P262 | DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. |
| P264 | WASH SKIN THOROUGHLY AFTER HANDLING. |
| P270 | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. |
| P271 | USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. |
| P273 | AVOID RELEASE TO THE ENVIRONMENT. |
| P280 | WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE PROTECTION. |
| P284 | WEAR RESPIRATORY PROTECTION. |
| P301 + P312 + P330 | IF SWALLOWED: CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL. RINSE MOUTH. |
| P302 + P350 + P310 | IF ON SKIN: GENTLY WASH WITH PLENTY OF SOAP AND WATER. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ PHYSICIAN. |
| P302 + P352 | IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. |
| P304 + P340 + P310 | IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER/DOCTOR. |
| P332 + P313 | IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION. |
| P362 | TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. |
| P370 + P378 | IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-RESISTANT FOAM TO EXTINGUISH. |
| P403 + P233 | STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. |
| P403 + P235 | STORE IN A WELL-VENTILATED PLACE. KEEP COOL. |
| P405 | STORE LOCKED UP. |
| P501 | DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT. |

**HAZARDS NOT
OTHERWISE
CLASSIFIED (HNOC)
OR NOT COVERED
BY GHS** NONE

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: C₁₂H₂₇N
MW: 185.36
CAS-NO. 102-82-9
PURITY: ≥ 99% (Assay)

HAZARDOUS COMPONENTS

| COMPONENT | CLASSIFICATION | CONCENTRATION |
|----------------------|--|----------------------|
| Tributylamine | | |
| | FLAM. LIQ. 4; ACUTE TOX. 4; ACUTE TOX. 1; ACUTE TOX. 2; SKIN IRRIT. 2; AQUATIC ACUTE 2; H227, H302, H330, H310, H315, H401 | <= 100% |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF DANGEROUS AREA.

IF INHALED IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

IN CASE OF SKIN CONTACT WASH OFF WITH SOAP AND PLENTY OF WATER. TAKE VICTIM IMMEDIATELY TO HOSPITAL. CONSULT A PHYSICIAN.

IN CASE OF EYE CONTACT FLUSH EYES WITH WATER AS A PRECAUTION.

| | |
|---|---|
| IF SWALLOWED | DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN. |
| MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11. |
| INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED | NO DATA AVAILABLE |

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

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| SUITABLE EXTINGUISHING MEDIA | SUITABLE EXTINGUISHING MEDIA USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. |
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| UNSUITABLE EXTINGUISHING MEDIA | DO NOT USE WATER JET. |
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| SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE | CARBON OXIDES, NITROGEN OXIDES (NOX) |
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| ADVICE FOR FIREFIGHTERS | WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY. |
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| FURTHER INFORMATION | USE WATER SPRAY TO COOL UNOPENED CONTAINERS. |
|----------------------------|--|

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES | WEAR RESPIRATORY PROTECTION. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST. FOR PERSONAL PROTECTION SEE SECTION 8. |
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|----------------------------------|--|
| ENVIRONMENTAL PRECAUTIONS | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. |
|----------------------------------|--|

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

CONTAIN SPILLAGE, AND THEN COLLECT WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE SECTION 13). KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOUR OR MIST. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE. FOR PRECAUTIONS SEE SECTION 2.2.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. CONTAINERS WHICH ARE OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE.

STORE UNDER INERT GAS. HYGROSCOPIC.

Store at RT

SPECIFIC END USE(S)

APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

SKIN PROTECTION HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS.

FULL CONTACT

MATERIAL: NITRILE RUBBER
MINIMUM LAYER THICKNESS: 0.4 MM
BREAK THROUGH TIME: 480 MIN
MATERIAL TESTED:CAMATRIL (KCL 730, SIZE M)

SPLASH CONTACT

MATERIAL: NITRILE RUBBER
MINIMUM LAYER THICKNESS: 0.2 MM
BREAK THROUGH TIME: 30 MIN
MATERIAL TESTED:DERMATRIL P (KCL 743, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

BODY PROTECTION COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

RESPIRATORY PROTECTION

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULLFACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

CONTROL OF ENVIRONMENTAL EXPOSURE

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE | Clear colorless to pale yellow to light orange liquid |
| ODOUR | UNPLEASANT |
| ODOUR THRESHOLD | NO DATA AVAILABLE |
| PH | 10.2 AT 0.1 G/L AT 25 C |
| MELTING POINT/FREEZING POINT | |
| INITIAL BOILING POINT AND BOILING RANGE | |
| FLASH POINT | |
| EVAPORATION RATE | NO DATA AVAILABLE |
| FLAMMABILITY (SOLID, GAS) | NO DATA AVAILABLE |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | UPPER EXPLOSION LIMIT: 6 %(V) LOWER EXPLOSION LIMIT: 1.4 %(V) |
| VAPOUR PRESSURE | 3.2 HPA AT 55 C |
| VAPOUR DENSITY | 6.4 - (AIR = 1.0) |
| RELATIVE DENSITY | 0.78 (Lit.) |
| WATER SOLUBILITY | 80 G/L AT 20 C - OECD TEST GUIDELINE 105 - SLIGHTLY SOLUBLE |
| PARTITION COEFFICIENT: N- OCTANOL/WATER | LOG POW: 3.338 AT 25 C |
| AUTO-IGNITION TEMPERATURE | 210 C AT 1,015 HPA |
| DECOMPOSITION TEMPERATURE | NO DATA AVAILABLE |
| VISCOSITY | NO DATA AVAILABLE |
| EXPLOSIVE PROPERTIES | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES | NO DATA AVAILABLE |

OTHER SAFETY INFORMATION

SURFACE TENSION 55 MN/M AT 20 C

RELATIVE VAPOUR DENSITY 6.4 - (AIR = 1.0)

SECTION 10. STABILITY AND REACTIVITY

| | |
|---|--|
| REACTIVITY | NO DATA AVAILABLE |
| CHEMICAL STABILITY | STABLE UNDER RECOMMENDED STORAGE CONDITIONS. |
| POSSIBILITY OF HAZARDOUS REACTIONS | NO DATA AVAILABLE |
| CONDITIONS TO AVOID | HEAT, FLAMES AND SPARKS. |
| INCOMPATIBLE MATERIALS | STRONG OXIDIZING AGENTS |
| HAZARDOUS DECOMPOSITION PRODUCTS | HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS. - CARBON OXIDES, NITROGEN OXIDES (NOX) OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE IN THE EVENT OF FIRE: SEE SECTION 5 |

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

| | |
|--|---|
| ACUTE TOXICITY | LD50 ORAL - RAT - MALE - 420 MG/KG LC50 INHALATION - RAT - MALE AND FEMALE - 4 H - 0.5 MG/L (OECD TEST GUIDELINE 403) LD50 DERMAL - RABBIT - MALE - 195 MG/KG NO DATA AVAILABLE |
| SKIN CORROSION/IRRITATION | SKIN RABBIT RESULT: IRRITATING TO SKIN. |
| SERIOUS EYE DAMAGE/EYE IRRITATION | EYES RABBIT RESULT: NO EYE IRRITATION (OECD TEST GUIDELINE 405) |

| | |
|---|---|
| RESPIRATORY OR SKIN SENSITISATION | BUEHLER TEST - GUINEA PIG RESULT: DOES NOT CAUSE SKIN SENSITISATION. |
| GERM CELL MUTAGENICITY | AMES TEST SALMONELLA TYPHIMURIUM RESULT: NEGATIVE OECD TEST GUIDELINE 474 MOUSE - MALE AND FEMALE RESULT: NEGATIVE |
| CARCINOGENICITY | |
| IARC: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC. |
| NTP: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP. |
| OSHA: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF REGULATED CARCINOGENS. |
| REPRODUCTIVE TOXICITY | NO DATA AVAILABLE |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | NO DATA AVAILABLE |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | NO DATA AVAILABLE |
| ASPIRATION HAZARD | NO DATA AVAILABLE |
| ADDITIONAL INFORMATION | RTECS: YA0350000 CNS STIMULATION. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED. |

SECTION 12. ECOLOGICAL INFORMATION

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| TOXICITY | |
| TOXICITY TO FISH | STATIC TEST LC50 - ORYZIAS LATIPES - 16.3 MG/L - 96 H (OECD TEST GUIDELINE 203) |

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|---|--|
| TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES | IMMOBILIZATION EC50 - DAPHNIA MAGNA (WATER FLEA) - 8 MG/L - 48 H (OECD TEST GUIDELINE 202) |
| TOXICITY TO ALGAE | STATIC TEST EC50 - DESMODESMUS SUBSPICATUS (GREEN ALGAE) - 3.6 MG/L - 72 H |

PERSISTENCE AND DEGRADABILITY

| | |
|------------------|---|
| BIODEGRADABILITY | AEROBIC - EXPOSURE TIME 29 D RESULT: 80.3 % - READILY BIODEGRADABLE. (OECD TEST GUIDELINE 301B) |
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| BIOACCUMULATIVE POTENTIAL | ACCUMULATION IN AQUATIC ORGANISMS IS UNLIKELY. |
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|-------------------------|-------------------|
| MOBILITY IN SOIL | NO DATA AVAILABLE |
|-------------------------|-------------------|

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|---|--|
| RESULTS OF PBT AND VPVB ASSESSMENT | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED |
|---|--|

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| OTHER ADVERSE EFFECTS | AN ENVIRONMENTAL HAZARD CANNOT BE EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DISPOSAL. TOXIC TO AQUATIC LIFE. |
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SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

| | |
|----------------|--|
| PRODUCT | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. |
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| CONTAMINATED PACKAGING | DISPOSE OF AS UNUSED PRODUCT. |
|-------------------------------|-------------------------------|

SECTION 14. TRANSPORT INFORMATION

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|---------------------------|---------------|
| DOT (US) | |
| PROPER SHIPPING NAME: | TRIBUTYLAMINE |
| UN NUMBER: | 2542 |
| CLASS: | 6.1 |
| PACKING GROUP: | II |
| REPORTABLE QUANTITY (RQ): | |

POISON INHALATION HAZARD: NO

IMDG

PROPER SHIPPING NAME: TRIBUTYLAMINE
UN NUMBER: 2542
CLASS: 6.1
PACKING GROUP: II
EMS-NO: F-A, S-A

IATA

PROPER SHIPPING NAME: TRIBUTYLAMINE
UN NUMBER: 2542
CLASS: 6.1
PACKING GROUP: II

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

SARA 313 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

SARA 311/312 HAZARDS FIRE HAZARD, ACUTE HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

| | CAS-NO. | REVISION DATE |
|---------------|----------|---------------|
| Tributylamine | 102-82-9 | 04/24/1993 |

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

| | CAS-NO. | REVISION DATE |
|---------------|----------|---------------|
| Tributylamine | 102-82-9 | 04/24/1993 |

NEW JERSEY RIGHT TO KNOW COMPONENTS

| | CAS-NO. | REVISION DATE |
|---------------|----------|---------------|
| Tributylamine | 102-82-9 | 04/24/1993 |

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

| | |
|-------------|---|
| H227 | COMBUSTIBLE LIQUID. |
| H302 | HARMFUL IF SWALLOWED. |
| H310 + H330 | FATAL IN CONTACT WITH SKIN OR IF INHALED. |
| H315 | CAUSES SKIN IRRITATION. |

H401

TOXIC TO AQUATIC LIFE.

MSDS LEGEND

MW: MOLECULAR WEIGHT
MF: MOLECULAR FORMULA
VOC: VOLATILE ORGANIC COMPOUNDS
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL
HYGINISTS
CAS: CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV: THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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