OCTAGON PROCESS INC. -- TRIETHANOLAMINE -- 6810-00-281-2192
===================== Product Identification =====================

Product ID:TRIETHANOLAMINE
MSDS Date:01/08/1987
FSC:6810
NIIN:00-281-2192
MSDS Number: BDSSB
=== Responsible Party ===
Company Name:OCTAGON PROCESS INC.
Address:596 RIVER ROAD
City:EDGEWATER
State:NJ
ZIP:07020-1105
Country:US
Info Phone Num:201-945-9400
Emergency Phone Num:201-945-9400
CAGE:82925
=== Co
ntractor Identification ===
Company Name:OCTAGON PROCESS INC.
Address:596 RIVER ROAD
Box:City:EDGEWATER
State:NJ
ZIP:07020
Country:US
Phone:201-945-9400
CAGE:82925

============= Composition/Information on Ingredients =============

Ingred Name:TRIETHANOLAMINE
CAS:102-71-6
RTECS #:KL9275000
Fraction by Wt: 99%+%
Other REC Limits:NONE SPECIFIED

===================== Hazards Identification =====================

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenici

ty:NTP:NO   IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYE- SEVERE IRRITATION. INHALE-
    IRRITATION AND DISCOMFORT. SKIN- LOCAL IRRITATION. INGEST- PAIN AND
    DISCOMFORT. CHRONIC: SKIN- PROLONGED OR REPEATED CONTACT MAY CAUSE
    SEVERE IRRITATION. INHALE- REPEATED OVEREXPOSURE TO VAPORS MAY
    CAUSE KIDNEY AND LIVER DAMAGE.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS
    LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYE- EXC

ESS REDNESS AND SWELLING OF THE
    CONJUNCTIVA. SKIN- REDNESS AND CHAPPING. INGEST- NAUSEA, VOMITING,
    DIARRHEA, DIZZINESS, DROWSINESS, MALAISE, COLLAPSE AND COMA.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS
    OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR
    RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

===================== First Aid Measures ======================

First Aid:INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT

  BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH
    PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL
    ATTENTION. SKIN: REM OVE CONTAMINATED CLOTHING. WASH WITH SOAP AND
    WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: GIVE
    2 GLASSES OF MILK OR WATER AND INDUCE VOMITING. GET IMMEDIATE
    MEDICAL ATTENTION.

==================== Fire Fighting Measures =====================
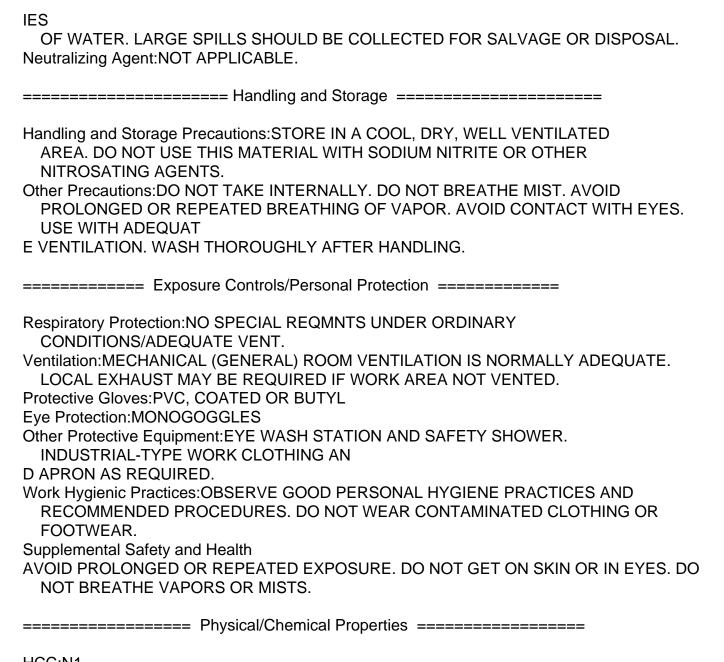
Flash Point:400F,204C
Lower Limits:1
Upper Limits:10
Extinguishi
ng Media:FOAM
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
    FULL PROTECTIVE EQUIPMENT AND EYE PROTECTION.
Unusual Fire/Explosion Hazard:DO NOT DIRECT SOLID STREAM OF WATER OR
    FOAM INTO HOT, BURNING POOLS, THIS MAY CAUSE FROTHING AND INCREASE
    FIRE INTENSITY.

================== Accidental Release Measures ==================

Spill Release Procedures:WEAR SUITABLE PROTECTIVE CLOTHING. AVOID
    SKIN/EYE CONTACT. SMALL SPILLS CAN BE FLUSHED WITH LARGE QUANTIT

IES
   OF WATER. LARGE SPILLS SHOULD BE COLLECTED FOR SALVAGE OR DISPOSAL.
Neutralizing Agent:NOT APPLICABLE.

===================== Handling and Storage =====================

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED
   AREA. DO NOT USE THIS MATERIAL WITH SODIUM NITRITE OR OTHER
   NITROSATING AGENTS.
Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID
   PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES.
   USE WITH ADEQUAT
E VENTILATION. WASH THOROUGHLY AFTER HANDLING.

============= Exposure Controls/Personal Protection =============

Respiratory Protection:NO SPECIAL REQMNTS UNDER ORDINARY
   CONDITIONS/ADEQUATE VENT.
Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE.
   LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.
Protective Gloves:PVC, COATED OR BUTYL
Eye Protection:MONOGOGGLES
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.
   INDUSTRIAL-TYPE WORK CLOTHING AN
D APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
   RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR
   FOOTWEAR.
Supplemental Safety and Health
AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO
   NOT BREATHE VAPORS OR MISTS.

================= Physical/Chemical Properties =================

HCC:N1
Boiling Pt:B.P. Text:635F,335C
Vapor Pres:< 0.01
Vapor Density:5.1
Spec Gravity:1.126
Evaporation Rate & Reference

:< 0.01 (BUTYL ACETATE=1)
Solubility in Water:COMPLETE
Appearance and Odor:NEARLY WATER-WHITE LIQUID, MILD AMMONIACAL ODOR

================= Stability and Reactivity Data =================

Stability Indicator/Materials to Avoid:YES
STRONG MINERAL ACIDS AND OXIDIZING AGENTS SUCH AS NITRIC ACID, LIQUID
    OXYGEN, OZONE.
Stability Condition to Avoid:NONE NOTED
Hazardous Decomposition Products:CAN PRODUCE NITROGEN OXIDES, CARBON
    MONOXIDE/CARBON DIOXIDE.

==================== Disposal Consi
derations ====================

Waste Disposal Methods:INCINERATE IN A FURNACE WHERE PERMITTED IN
    ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND
    REGULATIONS.