

OCTAGON PROCESS INC. -- MIL-H-22072 C -- 9150-01-080-5961

=====
Product Identification
=====

Product ID:MIL-H-22072 C

MSDS Date:10/28/1998

FSC:9150

NIIN:01-080-5961

MSDS Number: CDYWY

=== Responsible Party ===

Company Name:OCTAGON PROCESS INC.

Address:596 RIVER ROAD

City:EDGEWATER

State:NJ

ZIP:07020-1105

Country:US

Info Phone Num:201-313-1187/FAX -1057

Emergency Phone Num:201-945-9400/201-417-105

6

Preparer's Name:J. J. BURGARD

Chemtrec Ind/Phone:(800)424-9300

CAGE:82925

=== Contractor 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:ETHYLENE GLYCOL (SARA 313) (CERCLA)

CAS:107-21-1

RTECS #:KW2975000

Minumum % Wt:30.

Maxumum % Wt:40.

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:C STEL39PPM,A4,VAP96

EPA R

pt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT RELEVANT
ACGIH TLV:NOT RELEVANT

Ingred Name:POLYOXYPROPYLENE GLYCOL/POLYALKYLENE GLYCOL
CAS:9003-11-6
RTECS #:MD0911050
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALKANOLAMINE/FATTY ACID SOAPS
CAS:67939-86-0
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALKANOLAMINE/FATTY ACID SOAPS
CAS:64601-15-6
Other REC Limits:NONE RECOMMENDED

=====
Hazards Id
entification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE- EYES: MAY CAUSE IRRITATION AND
REDNESS SKIN: MAY CAUSE MILD IRRITATION. INHALATION:MAY CAUSE
IRRITATION TO THE UPPER RESPIRATORY TRACT. INGESTION: MAY CAUSE
ABDOMINAL DISCOMFORT OR PAIN, DIZZ INESS, AND CNS DEPRESSION.
SEVERE KIDNEY DAMAGE FOLLOWS
INGESTION OF LARGE VOLUMES OF ETHYLENE
GLYCOL. CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, REDNESS, NAUSEA, VOMITING, HEADACHE
AND DIZZINESS, UPPER RESPIRATORY TRACT IRRITATION, ABDOMINAL
DISCOMFORT OR PAIN, DIZZINESS, CNS DEPRESSION, SEVERE KIDNEY
DAMAGE.
Medical Cond Aggravated by Exposure:PERSONS WITH CHRONIC RESPIRATORY
CONDITIONS MAY HAVE SYMPTOMS AGGRAVATED.

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

===

First Aid:EYE: FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: MOVE VICTIM TO FRESH AIR . IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. (MOUTH TO MOUTH IS PREFERRED) IF TRAINED-GET IMMEDIATE MEDICAL ATTENTION. INGESTION: IF PATIENT IS CONSCIOUS, DRINK 4-8 OZ OF WATER AND INDUCE VOMITING . GET IMMEDIATE MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point:NONE
Lower Limits:N/D
Upper Limits:N/D
Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE FOR SMALL FIRE. USE FOAM FOR LARGE FIRE.
Fire Fighting Procedures:KEEP FIRE EXPOSED CONTAINERS COOL WITH WATER SPRAY. FIRE FIGHTERS SHOULD WEAR FULL TURN-OUT GEAR INCLUDING NIOSH/MSHA APPROVED SCBA.

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

Spill Release Procedures:DIKE AND CONTAIN SPILL. RECOVER FREE LIQUID FOR RE-USE IF POSSIBLE. ABSORB REMAINING PRODUCT WITH INERT MATERIAL AND PLACE INTO PROPER CONTAINERS FOR DISPOSAL. DO NOT ALLOW MATERIAL TO ENTER DRAINS, SEWERS, OR WATERWAYS. COMPLY WITH ALL SPILL NOTIFICATION REGULATIONS. ALL RESPONSE ACTIVITIES MUST COMPLY WITH HAZWOPER (29CFR1910.120).
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL , DRY PLACE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. DO NOT REUSE CONTAINERS.
Other Precautions:CLEAN CONTAMINATED MEQUIPMENT BEFORE STARTING ANY REPAIR WORK. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST. AV OI D EYE AND SKIN CONTACT.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF O

VER

EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR AIR-PURIFYING RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST IS RECOMMENDED. GENERAL MECHANICAL: FAN.

Protective Gloves:NATURAL RUBBER, NEOPRENE, NITRILE.

Eye Protection:ALWAYS WEAR EYE PROTECTION WHEN HANDLING CHEMICALS.

Other Protective Equipment:WEAR FULL-COVER SHIRT AND PANTS TO MINIMIZE SKIN CONTACT. IF SPLASHING IS EXPECTED, USE A FACE SHIELD AND

RUBBER APRON. PROVIDE EMERGENCY SHOWER AND EYE WASH STATIONS.

Work Hygienic Practices:WASH HANDS AND FACE AFTER HANDLING THIS MATERIAL. REMOVE CONTAMINATED CLOTHING AND FLUSH EXPOSED SKIN AREAS THOROUGHLY. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE.

Supplemental Safety and Health

HYGIENE: DISCARD ANY ITEMS WHICH CANNOT BE DECONTAMINATED. WORK PRACTICES: AVOID EYE/SKIN CONTACT. AVOID BREATHING VAPORS/MISTS.

ALL USERS SHOULD CONSULT MSDS BEFORE HANDLING THIS MATERIAL.

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

HCC:V6

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=101.7C, 215.F

Vapor Pres:17

Vapor Density:2.1

Spec Gravity:1.088

Evaporation Rate & Reference:1 (WATER=1)

Solubility in Water:COMPLETE

Appearance and Odor:RED LIQUID - SLIGHT AMMONIACAL ODOR

Percent Volatiles by Volume: