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## 

Product ID:07029 MORPHOLINE

MSDS Date:08/13/1993

FSC:6810

NIIN:00-419-4298

MSDS Number: BZLGT === Responsible Party ===

Company Name: HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City: KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Info Phone Num:913-321-3131

Emergency Phone Num:800-424-93

00 CHEMTREC

Preparer's Name: GENE TURNER

CAGE:3H606

=== Contractor Identification ===

Company Name: HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City: KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Phone:913-321-3131

CAGE:3H606

Company Name: HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609 City:WICHITA

State:KS ZIP:67219 Country:US

Phone:316-838-4663

CAGE:0A9L8

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

Ingred Name: MORPHOLINE

CAS:110-91-8

RTECS #:QD6475000

F

raction by Wt: 99%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:S, 20 PPM

ACGIH TLV:S, 20 PPM; 9596

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CONTACT MAY CAUSE SEVERE IRRITATION OR BURNS TO SKIN & EYES. SKIN ABSORPTION MAY BE HARMFUL. INGESTION MAY CAUSE GI TRACT DAMAGE, W

EAKNESS, DROWSINESS, DEATH. INHALATION MAY

CAUSE RESPIRATORY IRRITATI ON; PROLONGED EXPOSURE MAY CAUSE BRONCHITIS OR PNEUMONIA.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:SKIN-BURNS, SEVERE IRRITATION, EDEMA, BLISTERING. EYES-SEVERE IRRITATION, IRREVERSIBLE DAMAGE. INHALED-COUGHING, PAIN. INGESTED-DROWSINESS, WEAKNESS, DEATH, GI TRACT DAMAGE.

Medical Cond Agg

ravated by Exposure:EYES, SKIN AND RESPIRATORY SYSTEM DISORDERS.

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, LIFT LIDS. SKIN-REMOVE CONTAMINATED CLOTHES. FLUSH WITH WATER. INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR A RTIFICIAL RESPIRATION AS NEEDED. INGESTED-DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE WATER. IF VOMITING OCCURS, KEEP HEAD BELOW H

IPS.

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

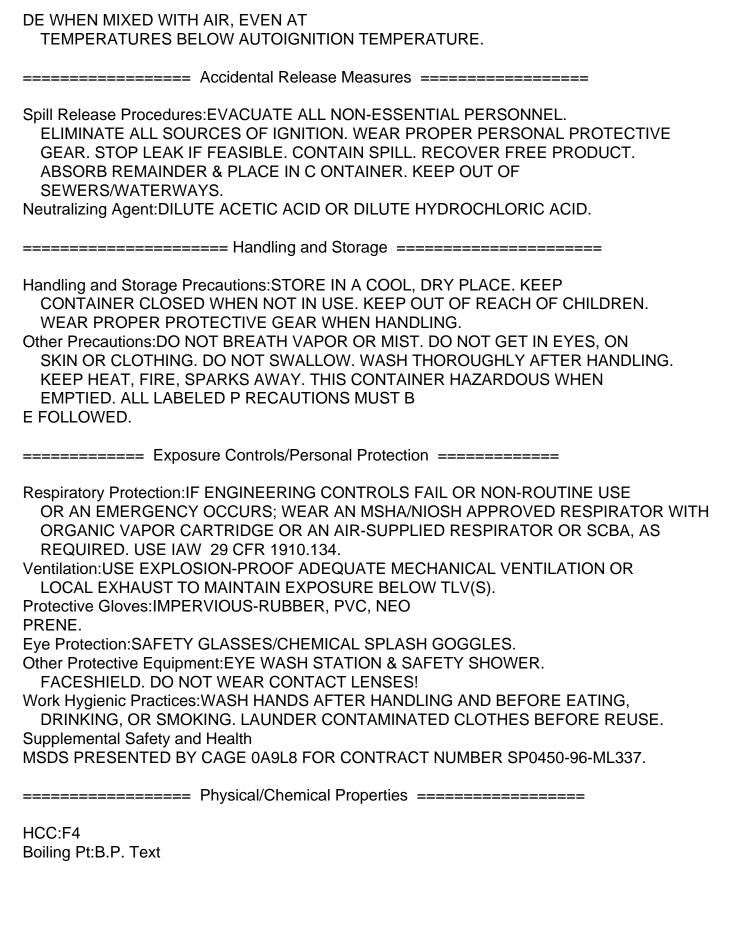
Flash Point Method:TCC Flash Point:95.0F,35.0C

Lower Limits: 1.8 Upper Limits: 10.8

Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:EVACUATE NON-ESSENTIAL PERSONNEL. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR. USE WATER TO COOL FIRE EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:HOT ORGANIC CHEMICAL VAPORS MAY SPONTANEOUSLY IGNITE OR EXPLO



:263F,128C
Melt/Freeze Pt:M.P/F.P Text:23.0F,-5.0C
Vapor Pres:7.000
Vapor Density:3.0000
Spec Gravity:1.0020
pH:>11.2
Evaporation Pato & amp: Poforonce:

Evaporation Rate & Department Reference: