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Product ID:SHINELINE EMULSIFIER PLUS MSDS Date:07/18/1996 FSC:7930 NIIN:01-436-7981 Status Code:A MSDS Number: CLBMW === Responsible Party === **Company Name: SPARTAN CHEMICAL CO INC** Address:110 NORTH WESTWOOD AVE City:TOLEDO State:OH ZIP:43607 Country:US Info Phone Num:419-531-5551 Emergency Phone Num:419-531-5551 Preparer's Name: THOMAS J. MITCHELL CAGE:23212 === Contractor Identification === Company Name: SPARTAN CHEMICAL CO INC. IPG INDUSTRIAL PRODUCTS GROUP Address:110 N WESTWOOD AVE Box:City:TOLEDO State:OH ZIP:43607 Country:US Phone:800-537-8990/419-531-5551 CAGE:23212

Ingred Name:2-BUTOXYETHANOL CAS:111-76-2 RTECS #:KJ8575000 Fraction by Wt: 28% Other REC Limits:120MG/M3 TWA

Ingred Name:SODIUM HYDROXIDE (S

ARA III) CAS:1310-73-2 RTECS #:WB4900000 Fraction by Wt: 1.5% Other REC Limits:2 MG/M3 CEILING EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:MONOETANEOLAMINE CAS:141-43-5 RTECS #:KJ5775000 Other REC Limits:STEL 15MG/M3 OSHA PEL:TWA 8 MG/M3

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SEVERE EYE AND SKIN IRRITANT. AVOID PROL

ONGED SKIN CONTACT AND INHALATION OF VAPORS OR MISTS. BUTOXYETHANOL IS ABSORBED THROUGH THE SKIN WHICH MAY EFFECT LIVER, KIDNEYS, LIMPH AND BLOOD SYSTEMS. IHALA TION: MAY IRRITATE THROAT AND RESPIRATORY SYSTEM. Medical Cond Aggravated by Exposure:UNKNOWN.

medical Cond Aggravated by Exposure. UNKNOWN.

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. REMOVE CONTACT LENSES. GET MEDICAL ATTENTION. SKIN: FLUSH WITH COPIOUS AMOUNTS OF WAT

ER. IF IRRITATION PERSISTS, SEE DR.

INGESTION: DRINK PL ENTY OF WATER. DO NOT INDUCE VOMITING. CALL DR.

Flash Point Method:COC Flash Point:NONE Unusual Fire/Explosion Hazard:NONE

Spill Release Procedures:SMALL QUANTITIES CAN BE FLUSHED W/WATER INTO SANITARY SEWER; LARGE QUANTITIES SHOULD BE ABSORBED OR CONTAINED. Neutralizing Agent:NONE SPECIF

IED BY MANUFACTURER.

Handling and Storage Precautions:DO NOT FREEZE, DO NOT STORE >120F. Other Precautions:NONE

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

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN . NOT REQUIRED.

Ventilation: GOOD GENERAL VENT SHOULD BE SUFFICIENT FOR MOST CONDITIONS. LOC EXHAUST VENT MAY BE NECESSARY FOR SOME OPERATIONS.

Pro

tective Gloves:SOLVENT RESISTANT TYPE GLOVES. Eye Protection:CHEM WORK GOGG & FULL LGTH FCSHLD Other Protective Equipment:UNDER CERTAIN CONDITIONS ALKALI RESISTANT APRONS & BOOTS ARE SUGGESTED. EMERGENCY EYEWASH & DELUGE SHOWER. Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

Boiling Pt:=93.3C, 200.F Spec Gravity:1.02 (H2O=1) pH:13.5-13.7 Evaporation Rate & amp; Reference: