<http://hazard.com/msds/f2/brl/brlqk.html>

SPARTAN CHEMICAL CO INC -- ORANGE TOUGH 40 -- 7930-00N041771 ===================== Product Identification =====================

Product ID:ORANGE TOUGH 40

MSDS Date:05/13/1992

FSC:7930

NIIN:00N041771

MSDS Number: BRLQK

=== Responsible Party ===

Company Name:SPARTAN CHEMICAL CO INC

Address:110 N 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

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

Ingred Name:CYCLOHEXENE,1-METHYL-4-(1-METHYLETHENYL 1)-, (R)-;

(D-LIMONENE)

CAS:5989-27-5

RTECS #:GW6360000

Fraction by Wt: 35-40%

Ingred Name:ETHANOL, 2-(2-ETHOXYETHOXY)-;

(2-(2-ETHOXYETHOXY)ETHANOL)(DIETHYLENE GLYCOL MONOETHYL ETHER)

(SARA III)

CAS:111-90-0

RTECS #:KK8750000

Fraction by Wt: 3%

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:MAY CAUSE EYE & SKIN IRRITATION.

HARMFUL IF SWALLOWED. HIGH CONCENTRATIONS OF VAPORS MAY BE

IRRITATING TO THROAT & RESP SYSTEM.

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:UNKNOWN.

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

First Aid:EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES; REMOVE

CONTACT LENSES. IF IRRIT PERSISTS, CONSULT MD. SKIN: WASH WITH SOAP

& WATER. INGEST: DRINK WATER TO DILUTE. DO NOT INDUCE VOMITING.

CONTACT MD IMMED. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS

PERSON. INHAL: REMOVE TO FRESH AIR. SUPPORT BREATHING(GIVE O\*2/ARTF

RESP).

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

Flash Point Method:TCC

Flash Point:124F,51C

Extinguishing Media:FOAM, DRY CHEMICAL, CO\*2, WATER FOG OR SPRAY.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE

EQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTIBLE LIQUID. KEEP AWAY FROM HEAT,

SPARKS OR FLAME.

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

Spill Release Procedures:ABSORB OR RECOVER FREE LIQUID.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:COMBUSTIBLE LIQIUD. KEEP AWAY FROM

HEAT/SPARKS/FLAME. DO NOT HANDLE/STORE NEAR STRONG OXIDANTS.

Other Precautions:IF STORED FOR PERIODS OF TIME ABOVE 125F, PRESSURE

MAY BUILD CAUSING DRUM TO EXPAND AND POSSIBLY RUPTURE. IF DRUM IS

BULGING, VENT CAREFULLY THROUGH BUNG; OPEN CAREFULLY.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED ORGANIC VAPOR

CANISTER/SUPPLIED AIR RESPIRATOR IN CONFINED OR ENCLOSED AREAS

WITHOUT ADEQUATE VENTILATION.

Ventilation:GOOD GENL VENT SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

Boiling Pt:B.P. Text:>212F,>100C

Spec Gravity:0.96

pH:9.0

Evaporation Rate & Reference:<1 (BUTYL ACETATE=1)

Solubility in Water:EMULSIFIABLE

Appearance and Odor:CLEAR, ORANGEISH LIQUID W/ORANGE CITRUS FRAGRANCE.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDANTS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:CO, CO\*2.

==================== Disposal Considerations ====================

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE &

FEDERAL REGULATIONS.

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