

MORTON -- THIOKOL MC 275 ACCELERATOR -- 8030-00-485-3237

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

Product ID:THIOKOL MC 275 ACCELERATOR

MSDS Date:04/16/1993

FSC:8030

NIIN:00-485-3237

Kit Part:Y

MSDS Number: BTZZP

=== Responsible Party ===

Company Name:MORTON

Address:7341 ANACONDA AVENUE

City:GARDEN GROVE

State:CA

ZIP:92641

Country:US

Info Phone Num:714-373-2837 EXT. 11

Emergency Phone Num:714-373-2837

CAGE:KO006

=== Contractor Identification ===

Company Name:MORTON

Address:7341 ANACONDA AVE.

City:GARDEN GROVE

State:CA

ZIP:92641

Country:US

Phone:714-373-2837

CAGE:KO006

Company Name:MORTON INTL INC SPECIALTY CHEMICALS GROUP

Address:333 W WACKER DR

City:CHICAGO

State:IL

ZIP:60606-1218

Country:US

Phone:312-807-2000

CAGE:32063

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

Ingred Name:MANGANESE DIOXIDE (SARA III)

CAS:1313-13-9

RTECS #:OP0350000

Fraction by Wt: 60-70%

Other

REC Limits:NONE RECOMMENDED
OSHA PEL:3 MG/M3 (AS MN FUME)
ACGIH TLV:5 MN MG/M3 RESP FRAC

Ingred Name:TERPHENYL HYDROGENATED (ORAL,RAT LD50: >10,000 MG/KG;
DERMAL,RABBIT LD50: >2,000 MG/KG)

CAS:61788-32-7

RTECS #:WZ6535000

Fraction by Wt: 10-30%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.5 PPM (CEILING)

ACGIH TLV:0.5 PPM; 4.7 MG/M3

Ingred Name:TERPHENYL (ORAL,RAT LD50: 13,200 MG/KG)

CAS:26140-60-3

RTECS #:WZ6450000

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.5 PPM;

5 MG/M3

ACGIH TLV:0.5 PPM; 4.7 MG/M3

Ingred Name:ETHOXYLATED NONYLPHENOL PHOSPHATE (ORAL,RAT LD50: 3630
MG/KG)

CAS:51811-79-1

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:DIPHENYLGUANIDINE 1,3- (ORAL,RAT LD50: 507 MG/KG;
ORAL,MOUSE LD50: 290 MG/KG)

CAS:102-06-7

RTECS #:MF0875000

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM HYDROXIDE

CAS:1310-73-2

RTECS #:WB4900000

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3

(CEILING)
ACGIH TLV:2 MG/M3 (CEILING)
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE: MILD TO MODERATE IRRITATION.
SKIN: IRRITATION CAN OCCUR FOLLOWING PROLONGED OR REPEATED CONTACT.
INGESTION: GASTROINTESTINAL, IRRITATION, NAUSEA, VOMITING,
GASTROINTESTINAL UPSET. TOXICITY I
N FOL LOWING ORGANS AND/OR
SYSTEMS: LIVER, KIDNEY, EYE, SKIN, IMMUNE SYSTEM (E.G. ALLERGIC
REACTIONS).
Medical Cond Aggravated by Exposure:SOME OF COMPONENTS IN PRODUCT MAY
AGGRAVATE EXISTING MEDICAL CONDITIONS. INDIVIDUALS WITH MEDICAL
CONDITIONS INVOLVING FOLLOWING ORGANS/SYSTEMS: LIVER, KIDNEY, SKIN,
IMMUNE SYSTEM, CHEMICAL ALLERGIES.

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

First Aid:EYE:FLUSH W/H2O 15 MIN,LIFT LID. GET PROMPT MED AID.
SK
IN:REMOVE CONTAM CLOTHES & SHOES. WASH AREA W/SOAP & H2O.IF IRRIT
DEVELOPS,SEE DR,WASH CONTAM CLOTH BEFORE REUSE. INHAL:REMOVE TO
FRESH AIR. IF S YMPTOMS DEVELOP,GET IMMED MED AID. IF NO
BREATH,GIVE ARTIF RESP (MOUTH TO MOUTH). INGEST:GET MED AID,UNLESS
ADVISED (IPECAC,FINGER DOWN THROAT). NOTHING BY MOUTH TO
DROWSY,UNCONSCIOUS,NO GAG REFLEX. *

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

Flash Point Method:SCC
Flash Point:>200F,>93C
Extinguishing Me
dia:SMALL FIRE: USE DRY CHEMICAL, CARBON DIOXIDE,
HALON, WATER SPRAY FOAM. LARGE FIRE: USE WATER SPRAY, FOG, ALCOHOL
FOAM.
Fire Fighting Procedures:FIRE FIGHTERS AND OTHER WHO MAY BE EXPOSED TO
THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH NIOSH APPROVED
POSITIVE PRESSURE SCBA & PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:NONE KNOWN.

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

Spill Release Procedures:SHOVEL OR VACUUM SPILLED PRODUCT AND PLAC

E IN

CLOSED CONTAINERS FOR FURTHER HANDLING AND DISPOSAL. DO NOT FLUSH TO SEWER, STREAM, OR OTHER BODIES OF WATER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENTED AREA. NO SPECIAL PRECAUTIONS NEEDED. FOLLOW GOOD MFR & HANDLING PRACTICES. CONTAINER CAN BE HAZARDOUS WHEN EMPTY (RESIDUE).

Other Precautions:DO NOT REUSE CONTAINER FOR FOOD, CLOTHING, OR PRODUCTS FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT MAY OCCUR.

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

Respiratory Protection:WEAR NIOSH/MSHA EQUIP. DETERMINE TYPE EQUIP FOR SPECIFIC APPLICATION BY CONSULTING RESP MFR. OBSERVE RESPIRATOR LIMITATIONS. HIGH CONCENTRATIONS MAY NEED USE OF SCBA OR SUPPLIED AIR RESPIRATOR. RESP P ROTECT PROGRAM IN COMPLY W/29CFR1910.134

Ventilation:GENERAL (DILUTION) MAY BE ACCEPTABLE. HOWEVER, LOCAL EXHAUST VENT RECOMMENDED WHEN VAPORS, MISTS, DUSTS CAN BE RELEASED.

Protective Gloves:IMPERVIOUS GLOVES (SEE GLOVE MFR)

Eye Protection:CHEM SPLASH GOGGLE/SFTY GLASSES W/SDSHLD

Other Protective Equipment:WEAR PROTECTIVE CLOTHING

Work Hygienic Practices:WASH AFTER HANDLE,BEFORE EAT,DRINK,SMOKE,USE RESTRM.WASH CONTAM GOGGLE,FACESHLD,GLOVE.LAUNDER CONTAM CLOTH.DISCARD SHOES

Supplemental Safety and Health

* NOTE TO PHYSICIAN: TREATMENT SHOULD BE DIRECTED AT PREVENTING ABSORPTION, ADMINISTERING TO THE SYMPTOMS AS THEY OCCUR, AND PROVIDIN

G SUPPORTIVE THERAPY.

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

HCC:N1

Vapor Pres:0.1 @ 25C

Vapor Density:>1

Spec Gravity:2.1 (WATER=1)

Evaporation Rate & Reference: