

MORTON -- THIOKOL MC-275 ACCELERATOR -- 8030-00-560-8756

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

Product ID:THIOKOL MC-275 ACCELERATOR

MSDS Date:04/16/1993

FSC:8030

NIIN:00-560-8756

Kit Part:Y

MSDS Number: CHKGY

=== Responsible Party ===

Company Name:MORTON

Address:7341 ANACONDA AVE.

City:GARDEN GROVE

State:CA

ZIP:92641

Info Phone Num:714-373-2837

Emergency Phone Num:800-424-9300 (CHEMTREC)

CAGE:KO006

=== Contractor Identification ===

Company Name:MORTON

Address:73

41 ANACONDA AVE.

City:GARDEN GROVE

State:CA

ZIP:92641

Country:US

Phone:714-373-2837

CAGE:KO006

Company Name:MORTON INTERNATIONAL AEROSPACE POLYMER SYSTEMS

Address:7341 ANACONDA AVENUE

Box:City:GARDEN GROVE

State:CA

ZIP:92641

Country:US

Phone:714-373-2837

CAGE:0U317

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

Ingred Name:MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Fraction by Wt: 66.4%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:1 MG/M3/STEL 3MG/M3

Ingred Name:HY

DROGENATED TERPHENYLS LD50 >10000 MG/KG ORAL RAT
CAS:61788-32-7
RTECS #:WZ6535000
Fraction by Wt: 22.7%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 PPM CEILING
ACGIH TLV:0.5 PPM

Ingred Name:TERPHENYL LD50 13200 MG/KG ORAL RAT
CAS:26140-60-3
RTECS #:WZ6450000
Fraction by Wt: 0.19%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 PPM
ACGIH TLV:0.5 PPM

Ingred Name:EXOLATED NONYL PHENYL PHOSPHATE LD50 36.30 MG/KG ORAL RAT
CAS:51811-79-1
Fraction by Wt: 2.9%
Other REC Limits:NONE RECOMMENDED

Ingr
ed Name:1,3 DIPHENYL GUANIDINE LD50 507 MG/KG ORAL RAT LD50 290
MG/KG ORAL MOUSE
CAS:102-06-7
Fraction by Wt: 4.8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM HYDROXIDE (CERCLA)
CAS:1310-73-2
RTECS #:WB4900000
Fraction by Wt: 0.7%
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
Re

ports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: IRRIT, REDNESS, PAIN, BURNS,
CORNEAL CLOUDING, BLINDNESS CORROSIVE. SKIN: IRRIT, REDNESS, PAIN,
BLISTERS, BURNS. ABSORBED THROUGH SKIN, SENSITIZATION, CORROSIVE.
INHAL: IRRIT TO MUCOUS MEMBRANE, COUGHING, BREATHING DIFFICULT,
CORROSIVE. INGEST: GI IRRIT, NAUSEA, VOMITING & GI UPSET, ABDOMINAL
PAIN, FEVER, LIVER *

Effects of Overexposure:* KIDNEY DAMAGE, EYE, SKIN IMMUNE SYSTEM AND
A

LLERGIC REACTION. HEADACHE, NAUSEA, DIARRHEA, ANEMIA, BURNS TO
MOUTH/THROAT PULMONARY EDEMA.

Medical Cond Aggravated by Exposure:LIVER/KIDNEY, SKIN, IMMUNE, SYSTEM,
CHEMICAL ALLERGIES.

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

First Aid:EYES: FLUSH W/WATER FOR 15 MINUTES, LIFT LIDS. GET MED AID.
SKIN: WASH W/SOAP & WATER. REMOVE CONTAM CLOTHES/SHOES, WASH BEFORE
REUSE. INHAL: REMOVE TO FRESH AIR, GET MED AID. ARTIF RESP/CPR IF
BREATH ING DIFFICULT
. INGEST: INDUCE VOMITING W/SYRUP OF IPECAC,
DRINK 2 GLASSES WATER OR STICK FINGER DOWN THROAT. DONT GIVE
ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. GET MED AID.

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

Flash Point Method:SCC

Flash Point:>200F,>93C

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:SM FIRES: DRY CHEMICAL, CARBON DIOXIDE, HALON,
WATER SPRAY OR FOAM. LG FIRE: WATER SPRAY, FOG OR ALCOHOL FOAM.

Fire Fighting Procedures:NIOSH APPROVED POSITIVE
PRESSURE SCBA & FULL
PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:SHOVEL/VACUUM SPILLED PRODUCT. PLACE IN CLOSED
CONTAINER. DO NOT FLUSH TO STREAMS/SEWERS/ANY BODIES OF WATER.

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

Handling and Storage Precautions:STORE IN COOL, DRY WELL VENTED AREA.
EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUE DO NOT REUSE CONTAINER

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Other Precautions:IF AIRBORNE CONCENTRATIONS EXCEED EXPOSURE LIMITS,
EVAC & VENTILATE AREA. USE AIR SUPPLIED RESPIRATOR/SCBA IN
INADEQUATELY VENTED AREAS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED EQUIPMENT. USE
SCBA/SUPPLIED AIR RESPIRATOR. COMPLY W/29CFR1910.134.

Ventilation:LOCAL EXHAUST RECOMMENDED TO MAINTAIN AIRBORNE
CONCENTRATIONS BELOW LIMITS. GENERAL DILUTION ACCEPTABLE.

Protective Gloves:IMPER

VIOUS

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYEWASH FACILITY, PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE
EATING/SMOKING/DRINKING/USING RESTROOM FACILITIES.

Supplemental Safety and Health

NK

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

Boiling Pt:B.P. Text:NA

Vapor Pres:0.1 @ 25C

Vapor Density:>1.0

Spec Gravity:2.1 WATER = 1

pH:NA

Evaporation Rate & Reference:>1.0

Solubility in Water:NA

Appea

rance and Odor:BLACK PASTE, PHENYL ODOR.

Percent Volatiles by Volume:NA

Corrosion Rate:NA

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS, NICKEL, COBALT, IRON OR COPPER.

Hazardous Decomposition Products:AMINES, SMOKE, SOOT AND TOXIC FUMES,
OXIDES OF CARBON & METAL OXIDES.

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

Waste Disposal Methods:IF DISCARDED IN UNUSED FORM, DISPOSE OF AT

LICENSED FACILITY ACCORDING TO FEDERAL, STATE AND LOCAL
REGULATIONS. CONTACT EPA IF NEEDED.

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