

MORTON INTERNATIONAL, INCORPORATED -- THIOKOL MC-236 ACCELERATOR --
8030-00-080-1549

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

Product ID:THIOKOL MC-236 ACCELERATOR

MSDS Date:07/09/1992

FSC:8030

NIIN:00-080-1549

Kit Part:Y

MSDS Number: BRQMC

=== Responsible Party ===

Company Name:MORTON INTERNATIONAL, INCORPORATED

Address:100 NORTH RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606

Country:US

Info Phone Nu

m:714-373-2837 EXTENSION 11

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

Preparer's Name:DAVID B. WIENCKOWSKI

CAGE:DO471

=== Contractor Identification ===

Company Name:MORTON INTERNATIONAL; SPECIALTY CHEM GRP

Address:333 WEST WACKER

City:CHICAGO

State:IL

ZIP:60606-1292

Phone:815-338-1800

CAGE:DO471

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 I

Ingredients =====

Ingred Name:MANGANESE DIOXIDE
CAS:1313-13-9
RTECS #:OP0350000
Fraction by Wt: 60-70%
Other REC Limits:NONE SPECIFIED

Ingred Name:HYDROGENATED TERPHENYL
CAS:61788-32-7
Fraction by Wt: 10-30%
Other REC Limits:NONE SPECIFIED

Ingred Name:TERPHENYL
CAS:26140-60-3
RTECS #:WZ6450000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:C 1.0 PPM
ACGIH TLV:C 0.53 PPM; 9394

Ingred Name:ETHOXYLATED NONYLPHEOL PHOSPHATE
CAS:51811-79-1
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED

Ingred Name:1,3-DIPHENYL GUANADINE
CAS:102-06-7
RTECS #:MF0875000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM HYDROXIDE
CAS:1310-73-2
RTECS #:WB4900000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Health Hazards Acute and Chronic:DEPENDING ON THE ROUTE, FREQUENCY, &
DURATION OF EXPO

SURE TOXICITY MAY EFFECT IN THE FOLLOWING ORGANS AND OR SYSTEMS: LIVER, KIDNEY, EYE, SKIN, IMMUNE SYSTEM (E.G. ALLERGIC REACTIONS).

Effects of Overexposure:EYE: CAN CAUSE MILD TO MODERATE IRRITATION. SKIN: IRRITATION CAN OCCUR FOLLOWING REPEATED/PROLONGED CONTACT & HYPERSENSITIVITY (I.E. ALLERGIC) REACTIONS IN SUSCEPTIBLE INDIVIDUALS. INHALATION: CAN CAUSE DIZZINESS, HEADACHES, & INCOORDINATION. INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION & UPSET, & VOMITING.

Medical Cond Aggravated by Exposure:SOME OF THE COMPONENTS IN THIS PRODUCT MAY AGGRAVATE EXISTING MEDICAL CONDITIONS. INDIVIDUALS W/MEDICAL CONDITIONS INVOLVING THE FOLLOWING: LIVER, KIDNEY, SKIN, IMMUNE SYSTEM &/OR SPECIFIC CHEM ALLERGY

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

First Aid:EYE: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN. SKIN: WASH AFFECTED AREA WITH SOAP & WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN. INHALATION: RE MOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK MED AID IMMEDIATELY. RESTORE BREATHING. INGESTION: GET MED AID. UNLESS ADVISED OTHERWISE, INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH IF DROWSY OR UNCONSCIOUS

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

Flash Point Method:SCC
Flash Point:>200F,>93C
Extinguishing Media:SM FIRES: USE DRY CHEMICAL, CARBON DIOXIDE (CO2), HALON, WATER SPRAY, FOAM. LRG FIRES USE WATER SPRAY, FOG, ALCOHOL FOAM
Fire Fighting Procedures:FIRE FIGHTERS & OTHERS WHO MAY BE EXPOSED TO THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH POSITIVE PRESSURE SCBA & FULL PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:NONE KNOWN

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

Spill Release Procedures:SHOVEL OR VACUUM SPILLED PRODUCT & PLACE IN CLOSED CONTAINERS FOR FURTHER HANDLING & DISPOSAL. DO NOT FLUSH TO SEWER, STREAM, OR OTHER BODIES OF WATER.

=====

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

Handling and Storage Precautions:IF THE AIRBORNE CONCENTRATION EXCEEDS ESTABLISHED EXPOSURE LIMITS (TLV OR PEL), OR IF HIGH AIRBORNE CONCENTRATIONS CAN OCCUR, EVACUATE & VENT AREA.

Other Precautions:A SUPPLIED AIR RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS (SCBA) SHOULD BE USED FOR ENTRY INTO ENCLOSED SPACES, OR IN AREAS WITH INADEQUATE VENTILATION.

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

Respiratory Protection:WHEN LIMITS ARE EXCEEDED USE NIOSH/MSHA APPROVED EQUIPMENT. DETERMINE THE APPROPRIATE TYPE EQUIPMENT FOR SPECIFIC APPLICATION BY CONSULTING THE RESPIRATOR MANUFACTURER OBSERVE THE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH/MSHA OR MANUF.

Ventilation:MAINTAIN AIRBORNE CONCENTRATIONS BELOW LIMITS. GENERAL (DILUTION) VENTILATION ACCEPTABLE LOCAL EXHAUST IS RECOMMENDED.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES

Othe

r Protective Equipment:AN EYE WASH FACILITY SHOULD BE READILY AVAILABLE. IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT.

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

Supplemental Safety and Health

REMOVE & WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

HCC:N1

Vapor Pres:0.1

Spec Gravity:2.1 (WATER=1)

Viscosity:100-500 POISE

Evaporation Rate & Referen

ce:< 1 (N-BUTYL ACETATE = 1)

Solubility in Water:SLIGHTLY SOLUBLE

Appearance and Odor:BLACK PASTE; PHENYL ODOR

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS, CHEMICALLY ACTIVE METALS (E.G. NICKEL, COBALT, IRON, COPPER).

Hazardous Decomposition Products:HEATED HIGH TEMP,EMIT FOLLOWING:

AMINES, OXIDES OF NITROGEN,SMOKE,SOOT,TOXIC FUMES,CARBON MONOXIDE/DIOXIDE,METAL OXIDES.

==== Disposa

I Considerations =====

Waste Disposal Methods:IF DISCARDED IN ITS ORIGINAL UNUSED FORM, THIS PRODUCT SHOULD BE MANAGED AT AN AUTHORIZED FACILITY IN COMPLIANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. CONTACT APPROPRIATE GOV'T EPA IF FURTHER DISPO SAL GUIDANCE IS REQUIRED.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.