

MORTON INTL -- THIOKOL MC-236 ACCELERATOR -- 8030-00-841-6832

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

Product ID:THIOKOL MC-236 ACCELERATOR

MSDS Date:07/09/1992

FSC:8030

NIIN:00-841-6832

Kit Part:Y

MSDS Number: BZLHS

=== Responsible Party ===

Company Name:MORTON INTL

Address:7341 ANACONDA AVE

City:GARDEN GROVE

State:CA

ZIP:92641

Country:US

Info Phone Num:714-373-2837

Emergency Phone Num:800-424-9300

P

reparer's Name:DAVID B. WIENCKOWSKI

CAGE:0U317

=== Contractor Identification ===

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

Company Name:MORTON INTERNATIONAL, INC.

Address:100 NORTH RIVERSIDE PLAZA

Box:City:CHICAGO

State:IL

ZIP:60606-1598

Country:US

Phone:312-807-2000;714-730-4200

CAGE:03UL8

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

Ingred N

ame: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 =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS >10,000 MG/KG
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute

and Chronic:DEPENDING ON THE ROUTE, FREQUENCY, & DURATION OF EXPOSURE TOXICITY MAY EFFECT IN THE FOLLOWING ORGANS AND OR SYSTEMS: LIVER, KIDNEY, EYE, SKIN, IMMUNE SYSTEM (E.G. ALLERGIC REACTIONS).

Explanation of Carcinogenicity:NOT CARCINOGENIC.

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 E DIZ

ZINESS, HEADACHES, &

INCO-ORDINATION. 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, IMMUE 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 IMMED. 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

Extinguishin

g Media:SM FIRES: USE DRY CHEMICAL, CARBON DIOXIDE (CO2), HALON, WATER SPRAY, FOAM. LRG FIRES USE WATER SPRAY, FOG, ALOCOHL 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 FUTURE 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

Other 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 & Reference: < 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).

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Dec

Composition Products:HEATED HIGH TEMP,EMIT FOLLOWING:
AMINES, OXIDES OF NITROGEN,SMOKE,SOOT,TOXIC FUMES,CARBON
MONOXIDE/DIOXIDE,METAL OXIDES.

===== Disposal 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 (provi
ded 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.