

MORTON THIOKOL, INC: MORTON CHEMICAL DIVISION -- THIOKOL MC-236 BASE --
8030-00-753-4597

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

Product ID:THIOKOL MC-236 BASE

MSDS Date:07/09/1992

FSC:8030

NIIN:00-753-4597

Kit Part:Y

MSDS Number: BRGXX

=== Responsible Party ===

Company Name:MORTON THIOKOL, INC: MORTON CHEMICAL DIVISION

Address:100 NORTH RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606

Country:US

Info

Phone Num:312-807-3422/714-373-2837

Emergency Phone Num:800-424-9300 CHEMTREC

Preparer's Name:DAVID B WIENCKOWSKI

CAGE:07703

=== Contractor Identification ===

Company Name:CORDANT TECHNOLOGIES INC. THIOKOL PROPULSION

Address:9160 N HWY 83

Box:707

City:BRIGHAM CITY

State:UT

ZIP:84302-0707

Phone:435-863-8545,435-863-3325

CAGE:07703

Company Name:MORTON INTERNATIONAL, INC

Address:100 NORTH RIVERSIDE PLAZA

Box:City:CHICAGO

State:IL

ZIP:60606

Country:US

Phone:312-807-3422/714-373-2837 EXT

CAGE:7W447

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Composition/Information on Ingredients
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Ingred Name:LIMESTONE/CALCIUM CARBONATE
CAS:471-34-1
RTECS #:FF9335000
Fraction by Wt: 30-60%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3 (RESP FRACT)
ACGIH TLV:10 MG/M3 (TOTAL)

Ingred Name:TITANIUM DIOXIDE (PIGMENT)
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:QUARTZ (CRYSTALLINE SILICA)
CAS:14808-60-7
RTECS #:VV
7330000
Fraction by Wt: 0.36%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

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Hazards Identification
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Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EYE: MECHANICAL IRRITATION.
INGESTION: CAN CAUSE NAUSEA, VOMITING, & GASTROINTESTINAL UPSET.
DEPENDING ON ROUTE, FREQUENCY, DURATION OF EXPOSURE, TOXICITY MAY
EFFECT IN FOLLOWING ORGANS OR SYST EMS: RESPIRAT
ORY SYSTEM, IMMUNE
SYSTEM.INHALATION: PNEUMOCONIOSIS.
Explanation of Carcinogenicity:EPIDEMIOLOGICAL STUDIES INDICATE LUNG
CANCER MORE PREVALENT AMONG INDIVIDUALS AFFECTED W/SILICOSIS THAN
GENERAL PUBLIC.
Effects of Overexposure:CHRONIC: SKIN: IRRITATION FOLLOWING PROLONGED
OR REPEATED CONTACT. INHALATION: CAN AFFECT RESPIRATORY FUNCTION.
SILICOSIS (FIBROTIC CONDITION CAUSED BY DEPOSITION OF SILICON
DIOXIDE PARTICLES. COUGH, WHEEZING, CHEST PAIN, & PROGRESSIVE
IMPAIR

MENT OF PULMONARY FUNCTION CHARACTERIZE A SILICOTIC
CONDITION).

Medical Cond Aggravated by Exposure:EXPOSURE TO THIS PRODUCT IS NOT
EXPECTED TO CONTRIBUTE TO, WORSEN, OR AGGRAVATE ANY EXISTING
MEDICAL CONDITIONS.

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

First Aid:EYE:FLUSH W/WATER 15 MIN. IF IRRIT,SEE DR. SKIN:REMOVE CONTAM
CLOTH/SHOES. WASH AREA W/SOAP & WATER. IF IRRIT,SEE DR. WASH CONTAM
CLOTH BEFORE REUSE. INHAL:REMOVE TO FRESH AIR. IF SYMPTO
M,GET IMMED
ME D AID. IF NO BREATH,GIVE ARTIF RESP (MOUTH TO MOUTH). INGEST:GET
MED AID. INDUCE VOMIT (IPECAC/FINGER IN THROAT). GIVE NOTHING BY
MOUTH TO UNCONSCIOUS. NOTE TO DR:PREVENT ABSORPTN. TREAT SYMPTOMS.

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

Flash Point Method:SCC
Flash Point:>200F,>93C
Extinguishing Media:USE AGENTS APPROVED FOR CLASS A HAZARDS (E.G.
HALOGENATED AGENTS, FOAM, STEAM) OR WATER FOG.
Fire Fighting Procedures:FIRE FIGHTERS AND
OTHERS WHO MAY BE EXPOSED TO
THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH NIOSH APPROVED
POSITIVE PRESSURE SCBA & FULL PROTECT CLOTHING.
Unusual Fire/Explosion Hazard:NONE KNOWN

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

Spill Release Procedures:SHOVEL/VACUUM. PLACE IN CLOSED CNTNRS. DONT
FLUSH, SEWER,STREAM WATERBODIES. ABOVE TLV, EVACUATE AREA. SCBA/AIR
SUPPLD RSPRTR USE IN ENCLOSED AREAS OR INADEQUATE VENTILATION.

===== Handl
ing and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTED AREA.
NO SPECIAL PRECAUTIONS NEEDED. FOLLOW GOOD MFR & HANDLING
PRACTICES. EMPTY CONTAINER CAN BE HAZARDOUS.
Other Precautions:DO NOT REUSE CONTAINER FOR FOOD, CLOTHING. OR PRODUCT
FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT MAY OCCUR.

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

Respiratory Protection:RESPIRATORY PROTECTION NOT USUALLY REQUIRED

ABOVE TLV, WEAR NIOSH/MSHA EQUIPMENT (SEE RSPRTR MFR FOR APPROPRIATE TYPE). OBSERVE RSPRTR USE LIMITATIONS SPECIFIED BY NIOSH/MSHA OR MANUFACTURER.

Ventilation:KEEP BELOW TLV (ADEQUATE VENT). GENERAL (DILUTION) VENT ACCEPTABLE, BUT LOCAL EXHAUST VENT RECOMMENDED WHEN VAPOR/DUST.

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 HANDLI

NG & BEFORE EATING, DRINKING,

SMOKING, USING RESTROOM. WASH & DRY CONTAM CLOTHING & SHOES BEFORE REUSE.

Supplemental Safety and Health

KEY1:N1.

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

HCC:N1

Spec Gravity:1.61

Viscosity:67 - 77 KU

Solubility in Water:INSOLUBLE

Percent Volatiles by Volume:3

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:PHENOLICS, OXIDES OF NITR
OGEN, OXIDES

OF SULFUR, SMOKE, SOOT, TOXIC (CO2, CO), HYDROGEN SULFIDE

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

Waste Disposal Methods:FOLLOW FEDERAL, STATE & LOCAL REGULATIONS.

CONTACT GOVERNMENTAL ENVIRONMENTAL AGENCIES IF GUIDANCE REQ'D.

1)RECYCLE/REWORK IF FEASIBLE. 2)INCINERATE AT AUTHORIZED FACILITY.

3)TREAT AT WASTE TREATMENT FACILITY.

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