

MORTON INTERNATIONAL, INCORPORATED -- THIOKOL MC-236 BASE -- 8030-00-080-1549
===== Product Identification =====

Product ID:THIOKOL MC-236 BASE

MSDS Date:07/09/1992

FSC:8030

NIIN:00-080-1549

Kit Part:Y

MSDS Number: BRQMB

=== Responsible Party ===

Company Name:MORTON INTERNATIONAL, INCORPORATED

Address:100 NORTH RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606

Country:US

Info Phone Num: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 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 (15) MG/M3
ACGIH TLV:TWA 10 MG/M3

Ingred Name:TITANIUM DIOXIDE
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:SILICA, CRYSTALLINE - QUARTZ (SARA 313)
CAS:14808-60-7
RTECS #:VV7330000
Fraction by Wt: 0.36%
Other REC Limits:NONE SPECIFIED
OSHA
PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:FORMALDEHYDE (SARA 313)
CAS:50-00-0
RTECS #:LP8925000
Fraction by Wt: < 0.1%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1048
ACGIH TLV:C 0.3 PPM; A2; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:NON-HAZARDOUS INGREDIENTS
Fraction by Wt: 60-90%
Other REC Limits:NONE SPECIFIED

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

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Ac

ute and Chronic: EYE CONTACT: OTHER THAN MECHANICAL IRRITATION NO ADVERSE EFFECTS ARE EXPECTED. SKIN CONTACT: IRRITATION CAN OCCUR FOLLOWING PROLONGED OR REPEATED CONTACT. INHALATION: UNDER NORMAL CONDITIONS OF USE, NO ADVERSE EFFECTS ARE EXPECTED. INGESTION: CAN CAUSE GASTROINTESTINAL UPSET.

Explanation of Carcinogenicity: QUARTZ (CRYSTALLINE SILICA) TOXIC EFFECTS: CAN CAUSE MECHANICAL IRRITATION TO THE EYES, SKIN, & GASTROINTESTINAL TRACT

Effects of Overexposure: DEPENDING ON THE ROUTE, FREQUENCY, AND DURATION OF EXPOSURE TOXICITY MAY AFFECT IN THE FOLLOWING ORGANS AND OR SYSTEMS: RESPIRATORY SYSTEM, IMMUNE SYSTEM (E.G. ALLERGIC REACTIONS).

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

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===== 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: REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP. GET MEDICAL ATTENTION IMMEDIATELY. RESTORE BREATHING. INGESTION: GET MEDICAL ATTENTION. UNLESS ADVISED OTHERWISE INDUCE VOMITING. DON'T GIVE ANYTHING TO UNCONSCIOUS PERSON.

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

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

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

Spill Release Procedures: SHOVEL OR VACUUM SPILLED PRODUCT & PLACE IN CLOSED CONTAINERS FOR FURTHER HANDLING & DISPOSAL

SPOSAL. DO NOT FLUSH TO
SEWER, STREAM OR OTHER BODIES OF WATER.

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

Handling and Storage Precautions:THIS CONTAINER CAN BE HAZARDOUS WHEN
EMPTY, BECAUSE IT CAN RETAIN PRODUCT RESIDUES. THEREFORE, DON'T
REUSE CONTAINER FOR FOOD, CLOTHING OR PRODUCTS

Other Precautions:FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT
MAY OCCUR. NO SPECIAL PRECAUTIONS ARE NEEDED. FOLLOW GOOD
MANUFACTURING AND HANDLING PRACTICE

S. STORE IN COOL, DRY WELL
VENTILATED AREA.

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

Respiratory Protection:RESPIRATORY PROTECTION IS NOT USUALLY REQUIRED.
WHEN ESTABLISHED AIRBORNE EXPOSURE LIMITS ARE SURPASSED WEAR
NIOSH/MSHA APPROVED EQUIPMENT. FOR SPECIFIC APPLICATION BY
CONSULTING THE RESPIRATOR MANUFACTURER. SCBA/SUPPLIED AIR MAY BE
NECESS.

Ventilation:MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED
EXPOSURE LIMITS, MECHANICAL GENERAL, LOCAL EXHAUST ARE ACCEPTABLE

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:CHEM SPLASH GOG, SAFETY GLASSES W/SIDES

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

Work Hygienic Practices:REMOVE & WASH CONTAMINATED CLOTHING & SHOES
BEFORE REUSE.

Supplemental Safety and Health

CHRONIC EXPOSURE TO CRYSTALLINE SILICA DUSTS CAN CAUSE SILICOSIS, A
FIBROTIC CONDITION CAUSED BY DEPOSITION OF SILICON DIOXIDE

PARTICLES. COUGH, WHEEZING, CHEST PAIN, & PROGRESSIVE IMPAIRMENT OF
PULMONARY FUNCTION CHARACTERIZE A SILICOTIC CONDITION.

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

HCC:N1

Spec Gravity:1.61 (WATER=1)

Viscosity:*

Solubility in Water:INSOLUBLE

Appearance and Odor:LIGHT COLORED, OFF-WHITE PASTE, SULFIDE ODOR

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:HEATED T

O HIGH TEMP. MAY EMIT

PHENOLICS, OXIDES OF NITROGEN & SULFUR, SMOKE, SOOT & TOXIC FUMES,
HYDROGEN SULFIDE.

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

Waste Disposal Methods: IF DISCARDED IN IT'S ORIGINAL UNUSED FORM, THIS PRODUCT SHOULD BE MANAGED (STORED/TREATED/DISPOSED/ETC.) AT AN AUTHORIZED FACILITY IN COMPLIANCE W/LOCAL, STATE & FEDERAL REGULATIONS. CONTACT APPROPRIATE GOVERNMENT EPA AGENCIES FOR FURTHER DISPOSAL.

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