

MORTON INTERNATIONAL, INC -- THIOKOL MC-236 BASE -- 8030-00-850-5717

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

Product ID:THIOKOL MC-236 BASE

MSDS Date:07/09/1992

FSC:8030

NIIN:00-850-5717

Kit Part:Y

MSDS Number: BRQQP

=== Responsible Party ===

Company Name:MORTON INTERNATIONAL, INC

Address:100 NORTH RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606

Country:US

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

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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:*15 MG/M3 TOTAL PART
OSHA PEL:5 MG/M3 RESP FRACTN*
ACGIH TLV:10MG/M3 TOTAL PARTIC

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 1-5%
Other REC Limits:*10 MG/M3 TOTAL PART
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

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

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:EYE: OTHER THAN MECHANICAL IRRITATION,
NO ADVERSE EFFECTS EXPECTED. SKIN: IRRITATION CAN OCCUR FOLLOWING
PROLONGED OR REPEATED CONTACT. INHALATION: UNDER NORMAL CONDITIONS
OF USE NO ADVERSE EFFECTS EX PECTED. INGESTION: CAN
CAUSE NAUSEA,
VOMITING, AND GASTROINTESTINAL UPSET.
Explanation of Carcinogenicity:CRYSTALLINE SILICA:SIGNIFICANT INCIDENCE
OF ADENOCARCINOMAS & SQUAMOUS CELL CARCINOMAS OF LUNG INDUCE IN
RATS EXPOSED.
Effects of Overexposure:DEPENDING ON ROUTE, FREQUENCY & DURATION OF
EXPOSURE TOXICITY MAY EFFECT THE FOLLOWING ORGANS OR SYSTEMS.
RESPIRATORY SYSTEM, IMMUNE SYSTEM (E.G. ALLERGIC REACTIONS).
Medical Cond Aggravated by Exposure:EXPOSURE TO THIS PRODUCT IS NOT
EXPECTED TO CON

TRIBUTE 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 CONTAM SKIN W/SOAP & WATER.IF IRRIT, SEE DR.WASH
CONTAM CLOTH SEPARATELY BEFORE REUSE.INHAL:REMOVE TO FRESH AIR. GET
IMM ED MED AID.IF NO BREATH,GIVE ARTIF RESP(MOUTH TO
MOUTH).INGEST:GET MED AID,UNLESS ADVISED,INDUCE VOMIT (IPECAC W/2
GLASSES WATER
/FINGER DOWN THROAT).NOTHING BY MOUTH TO
UNCONSCIOUS,DROWSY,NO GAG REFL

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

Flash Point Method:SCC
Flash Point:>200F,>93C
Extinguishing Media:CLASS A HAZARD: HALOGENATED AGENTS, FOAM, STREAM OR
WATER FOG.
Fire Fighting Procedures:FIRE FIGHTERS & OTHER WHO MAY BE EXPOSED TO
PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED W/NIOSH POSITIVE PRESSURE
SCBA & FULL PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:NONE KNOWN

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

Spill Release Procedures:SHOVEL OR VACUUM SPILLED PRODUCTS & PLACE IN
CLOSED CONTAINERS FOR FURTHER HANDLING & DISPOSAL. IN AREAS WITH
INADEQUATE VENTILATION OR IN ENCLOSED SPACES, USE A SELF-CONTAINED
BREATHING APPARATUS.

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

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

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

Respiratory Protection:NOT USUALLY REQUIRED. ABOVE EXPOSURE LIMITS,
WEAR NIOSH/MSHA EQUIPMENT. SEE RESPIRATOR MFR FOR APPROPRIATE TYPE
EQUIPMENT. OBSERVE RESPIRATOR USE LIMITS SPECIFIED BY NIOSH/MSHA OR
MFR.

SCBA/SUPPLIED A IR RESPIRATOR FOR HIGH CONCENTRATIONS.
Ventilation:KEEP BELOW PEL/TLV. GENERAL (DILUTION) VENT MAY BE
ACCEPTABLE. LOCAL EXHAUST VENT RECOMMENDED WHEN VAPOR/MIST
RELEASED.

Protective Gloves:IMPERVIOUS GLOVES,SEE GLOVE MFR FOR TYPE
Eye Protection:SPLASH GOGGLES,SFTY GLASSES W/SIDESHIELD
Other Protective Equipment:AN EYE WASH FACILITY SHOULD BE READILY
AVAILABLE.

Work Hygienic Practices:WASH AFTER HANDLING, BEFORE EATING,DRINKING,
SMOKING,USING RESTRM. CLEAN & DRY C
ONTAMINATED CLOTHES & SHOES
BEFORE REUSE

Supplemental Safety and Health

KEY1:N1. THIS PRODUCT CONTAINS LESS THAN 0.1% OF FORMALDEHYDE,WHICH CAN
ACCUMULATE IN THE HEADSPACE OF SEALANT CONTAINERS, MAINTAIN
ADEQUATE VENTILATION IF THE AIRBORNE CONCENTRATION CAN EXCEED
ESTABLISHED LIMITS (OSHA PEL 1 PPM; STEL 2 PPM; ACGIH TLV 1 PPM;
STEL 2 PPM) APPROPRIATE RESPIRATORY EQUIPMENT SHOULD BE WORN.

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

HCC:N1
Spec Gravity:1.61
Viscosity:9000-14000 P
Solubility in Water:INSOLUBLE
Appearance and Odor:LIGHT COLORED, OFF WHITE PASTE, SULFIDE ODOR

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

Stability Indicator/Materials to Avoid:YES
NONE KNOWN
Hazardous Decomposition Products:PHENOLICS, OXIDES OF NITROGEN, OXIDES
OF SULFUR, SMOKE, SOOT, TOXIC FUMES (CO & CO2), HYDROGEN SULFIDE.

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

Waste Disposal Methods:DON'T FLUSH TO
SEWER, STREAM, OTHER WATER
BODIES. IF DISCARDED IN ORIGINAL UNUSED FORM, MANAGE AT AUTHORIZED
FACILITY, IN COMPLIANCE W/FED, STATE & LOCAL REGULATIONS. CONTACT
GOVERNMENTAL AGENCIES FOR GUIDANCE. 1)RECYCLE. 2)INCINERATE.
3)TREAT.

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