

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

Product ID:THIOKOL MC-236 BASE

MSDS Date:07/09/1992

FSC:8030

NIIN:00-723-2746

Kit Part:Y

MSDS Number: BSGFL

=== 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

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 =====

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

Ingred Name:QUARTZ (CRYSTALLINE SILICA)
CAS:14808-60-7
RTECS #:VV7330000
Fraction by Wt: 0.36%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3 RESP FRACT
ACGIH TLV:0.1 MG/M3 RESP FRACT

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= 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 CEL CARCINOMAS OF LUNG WAS 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 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 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 GA
G 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:CONTAINER CAN BE HAZARDOUS WHEN EMPTY BECAUSE IT CAN RETAIN PRODUCT RESIDUES, THEREFORE, 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,US

ING RESTRM. CLEAN & DRY CONTAMINATED CLOTHES & SHOES BEFORE REUSE

Supplemental Safety and Health

KEY1:T6. THIS PRODUCT CONTAINS LESS THAN 0.1% OF FORMALDEHYDE, WHICH CAN ACCUMULATE IN THE HEADSPACE OF SEALED 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 =====
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HCC:T6

Spec Gravity:1.61

Viscosity:9000-14000 P

Solubility in Water:INSOLUBLE

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

Percent Volatiles by Volume:97

===== 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 ====
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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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