

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

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
=====

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
OS
HA 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 CO

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 WATE
R/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 & HANDLIN
G 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

CONTAMINATED 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 Gr

avity: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 T

O 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.

Disclaimer (provided 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 inf

ormation 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.