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MORTON INTERNATIONAL, INC -- THIOKOL MC-236 BASE -- 8030-00-723-2746

============ 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 N

um: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/M

3 RESP FRACT

ACGIH TLV:0.1 MG/M3 RESP FRACT

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

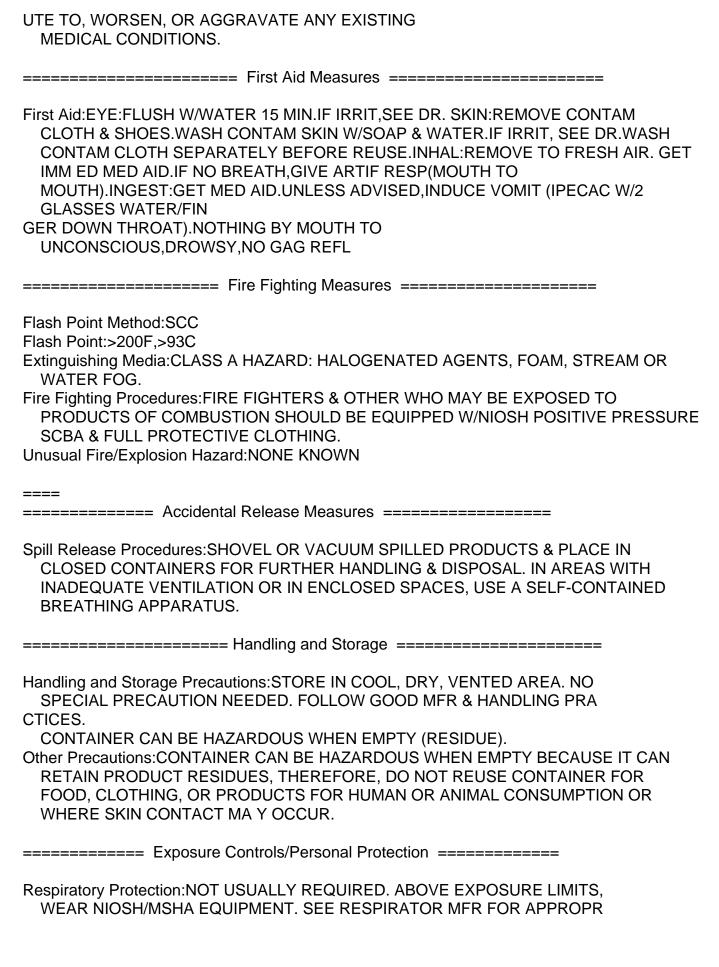
Health Hazards Acute and Chronic:EYE: OTHER THAN MECHANICAL IRRITATION, NO ADVERSE EFFECTS EXPECTED. SKIN: IRRITATION CAN OCCUR FOLLOWING PROLONGED OR REPEATED CONTACT. INHALATION: UNDER NORMAL CONDITIONS OF USE NO ADVERSE EFFECTS EX PECTED. INGESTION: CAN CAUSE NAUSEA.

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 CONTRIB



IATE 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 Prac

tices:WASH AFTER HANDLING, BEFORE EATING, DRINKING, SMOKING, USING 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 ESTABL ISHED LIMITS (OSHA PEL 1 PPM; STEL 2 PPM; ACGIH TLV 1 PPM, STEL 2 PPM) APPROPRIATE RESPIRATORY EQUIPMENT SHOULD BE WO RN.

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========= Physical/Chemical Properties ==========
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), HYDR OGEN 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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