

NORTH AMERICAN REFRACTORIES CO -- GM DRYBOND, REFRACTORY MORTAR/COATING --
9350-00-153-6811

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

Product ID:GM DRYBOND, REFRACTORY MORTAR/COATING

MSDS Date:06/25/1990

FSC:9350

NIIN:00-153-6811

Status Code:A

MSDS Number: CJMTQ

=== Responsible Party ===

Company Name:NORTH AMERICAN REFRACTORIES CO

Address:1228 EUCLID AVE

City:CLEVELAND

State:OH

ZIP:44115-1809

Country:US

Info Phone Num:814-234-7981;216-621-5200

Emergency Phone Num:814-236-3890;415-432-4741

CAGE:86653

=== Contractor Identification ===

Company Name:NORTH AMERICAN REFRACTORIES

Address:UNK

Box:UNK

City:PICO RIVERA

State:CA

ZIP:90660

Country:US

Phone:562-942-2151

Contract Num:SP0490-99-M-W029

CAGE:1JME5

Company Name:NORTH AMERICAN REFRACTORIES COMPANY

Address:500 HALLE BUILDING 1228 EUCLID AVENUE

Box:City:CLEVELAND

State:OH

ZIP:44115-1809

Country:US

Phone:814-234-7981/814-234-3890

CAGE:86653

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Composition/Information on Ingredients
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Ingred Name:SILICA, CRYSTALLINE - QUARTZ (CRYSTALLINE SILICA
INCLUDING INGREFIENT #1 TO #3 = 10.0 - 30.0 %)
CAS:14808-60-7
RTECS #:VV7330000
OSHA PEL:0.1 MG/M3 RDUST
ACGIH TLV:0.1 MG/M3 RDUST

Ingred Name:SILICA, CRYSTALLINE - CRISTOBALITE (CRYSTALLINE SILICA
INCLUDING INGREFIENT #1 TO #3 = 10.0 - 30.0 %)
CAS:14464-46-1
RTECS #:VV7325000
OSHA PEL:0.05 MG/M3 RDUST
ACGIH TLV:0.05 MG/M3 RDUST

Ingred Name:SILICA, CRYSTALLIN
E - TRIDYMITE (CRYSTALLINE SILICA
INCLUDING INGREFIENT #1 TO #3 = 10.0 - 30.0 %)
CAS:15468-32-3
RTECS #:VV7335000
OSHA PEL:0.05 MG/M3 RDUST
ACGIH TLV:0.05 MG/M3 RDUST

Ingred Name:ALUMINUM SILICATE; (ALUMINA SILICATE)
CAS:1302-93-8
Minumum % Wt:60.
Maxumum % Wt:100.

Ingred Name:HYDROUS ALUMINA SILICATE
CAS:1302-87-0
RTECS #:UU6858000
Minumum % Wt:10.
Maxumum % Wt:30.
OSHA PEL:10 MG/M3 TDUST (MFR)
ACGIH TLV:10 MG/M3 TDUST (MFR)

Ingred Name:ALUMINUM SULFATE (SARA III). LD50 (ORAL,MOUSE)
= 6207
MG/KG.
CAS:10043-01-3
RTECS #:BD1700000
Minumum % Wt:7.
Maxumum % Wt:13.
OSHA PEL:10 MG/M3 TDUST (MFR)
ACGIH TLV:10 MG/M3 TDUST (MFR)
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:PHOSPHATE BINDER (AMMONIUM PHOSPHATE)
CAS:7722-76-1
Minumum % Wt:7.
Maxumum % Wt:13.

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Hazards Identification
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LD50 LC50 Mixture:SEE TOXICITY SECTION
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES

OSHA:NO

Health Hazards Acute and Chronic:INGREDIENT 6: MAY CAUSE IRRITATION TO SKIN, EYES AND LUNGS. INGREDIENT 7: MAY IRRITATE SKIN AND EYES. INGREDIENTS 1, 2, & 3: CHRONIC EXPOSURE TO DUST COULD CAUSE PULMONARY PROBLEMS. CHRONIC OVEREXPOSURE TO DUST CONTAINING RESPIRABLE SIZED CRYSTALLINE SILICA (QUARTZ, CRISTOBALITE, AND TRIDYMITE) CAN CAUSE DELAYED LUNG INJURY (SILICOSIS). TARGET ORGANS: REPIRATORY SYSTEM AND LUNGS.

Explanation of Carcinogenicity:CRYSTALLINE SILICA (QUARTZ,

CRISTOBALITE, TRIDYMITE): GRP 2A: IARC MONOGRAPHS.

Effects of Overexposure:IRRITATION, COUGHING.

Medical Cond Aggravated by Exposure:INHALATION OF DUST CONTAINING CRYSTALLINE SILICA MAY CONTRIBUTE TO PRE-EXISTING PULMONARY DISEASES SUCH AS ASTHMA AND LUNG DISORDERS ASSOCIATED WITH SMOKING OF TOBACCO.

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===== First Aid Measures =====

First Aid:SKIN: WASH THOROUGHLY WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL HELP.

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

Flash Point:NONFLAMMABLE
Extinguishing Media:NONFLAMMABLE
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:AVOID GENERATING DUST EXPOSURE DURING CLEANUP.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and
Storage Precautions:AVOID DUST GENERATION.
Other Precautions:CRYSTALLINE SILICA LEVELS IN USED REFRACTORIES MAY BE HIGHER OR LOWER THAN AS-SHIPED DEPENDING ON SERVICE CONDITIONS. HYGIENE MONITORING MUST BE DONE TO INSURE THE PROPER EMPLOYEE PROTECTION DURING T EAROUT.

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

Respiratory Protection:NIOSH/MSHA APPROVED DUST AND/OR ORGANIC VAPOR RESPIRATOR FOR EXPOSURES ABOVE TLV.
Ventilation:LOCAL EXHAUST RECOMMENDED

TO MAINTAIN EXPOSURES BELOW TLV.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NUISANCE DUST HAZARD. AVOID CREATING DUST. WEAR DUST MASK UNDER DUSTY CONDITIONS.

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

HCC:N1

Appearance and Odor:TAN, GRANULAR, DRY MIXTURE, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:MAY GENERATE SO*2 FUMES.

===== Toxicological Information =====

Toxicological Information:ACGIH TLV FOR QUARTZ= 0.1 MG/M3, FOR CRISTOBALITE= 0.05 MG/3, FOR TRIDYMITE= 0.05 MG/M3. FOR ALL OTHE INGREDIENTS OSHA PEL= 10 MG/M3; ACGIH TLV = 10 MG/M3. TOXICITY

DATA: QUARTZ LCL0=300 MICROGRAM/10 Y-I INHALATION HUMAN; CRISTOBALITE TCL0=16 MPPCF/17.9Y-I INHAL HUMAN; TRIDMITE TCL0= 16 MPPCF/8H/17.9Y-I INHAL HUMAN.

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

Waste Disposal Methods:DISPOSE OF MATERIAL ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS AS FINAL USED CONDITION OF PRODUCT DICTATES.

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