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PPG INDUSTRIES INC -- HI-SIL 233 -- 6850-01-022-7031

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

Product ID:HI-SIL 233 MSDS Date:07/03/1991

FSC:6850

NIIN:01-022-7031

MSDS Number: BWSVB === Responsible Party ===

Company Name: PPG INDUSTRIES INC

Address: ONE PPG PLACE

City:PITTSBURGH

State:PA ZIP:15272 Country:US

Info Phone Num:304-843-1300

Emergency Phone Num:304-843-1300 Preparer's Name:R KENNETH LEE

CAGE:9 3915

=== Contractor Identification ===

Company Name: PPG INDUSTRIES INC CHEMICAL DIVISION

Address: ONE GATEWAY CENTER

City:PITTSBURGH

State:PA

ZIP:15222-1416 Country:US

Phone:304-843-1300

CAGE:93915

======= Composition/Information on Ingredients ========

Ingred Name: SILICON DIOXIDE, HYDRATE; (SIO\*2 HYDRATE)

RTECS #:VW0600000 Fraction by Wt: 87% OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name: SILICA GEL

CAS:112945-52-5 RTECS #:VV7310000 OSHA PEL:6 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:SUPD

AT:TEMPORARILY DEPOSITED IN ANIMALS' LUNGS, MOST OF DEPOSITED MATL WAS CLEARED SOON AFTER DUST EXPOS ENDED. (ING 4) RTECS #:9999992Z

Ingred Name:ING 3:RSLTS OF ALL STUDES PERFORMED BY, OR KNOWN TO, PPG INDICATE VERY LOW ORDER OF PULM ACTIVITY FOR SYNTHETIC (ING 5) RTECS #:9999999ZZ

Ingred Name:ING 4:PRECIPITATED SILICAS. PPG RECOMMENDS THAT PERSONS W/BRTHG PROBLEMS/LUNG DISEASE SHOULD NOT WORK IN DUSTY (ING 6) RTECS #:9999992Z

Ingred Name: ING 5: AREAS UNLESS PHYS APPROVES & CERTI

FIES THEIR FITNESS

TO WEAR RESPIRATORY PROTECTION.

RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:BE I/A/W 29 CFR 1910.132 AND 29 CFR 1910.133.

RTECS #:9999999ZZ

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:EXCESSIVE CONT W/POWDER CAN CAUSE DRYING OF MUC MEMB OF

NOSE, EYES, & THROAT DUE TO ABSORPTION

OF MOISTURE & OILS. THIS MATL CAN ALSO CAUSE NASAL IRRIT & NOSEBLEEDS. EYE CONT W/POWDER CAN RSLT I N MILD IRRIT. CHRONIC:EPIDEMIOLOGICAL STUDY WAS CONDUCTED WHICH INCLD 165 PRECIPITATED SILICA WORKERS (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:WHO HAD BEEN EXPOS AN AVERAGE TIME SPAN OF 8.6 YRS. OF THESE 165 WORKERS, 44 HAD BEEN EXPOS FOR AN AVERAGE OF 18 YRS. NO ADVERSE EFTS WERE

NOTED IN COMPLETE MED

EXAMINATIONS (INCLDG CHEST ROE NTGENOGRAMS) OF THESE WORKERS. PULM FUNCTION DECREMENTS WERE CORRELATED ONLY W/SMOKING & AGE BUT NOT W/DEGREE/ (SUPDAT)

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:INGEST:CALL MD IMMEDIATELY . SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD . INHAL:REMOVE AFFECTED PERSON TO FRESH AIR. IF IRRIT/DISCOMFORT PERSISTS, CONSUL

T PHYS. EYE:FLUSH W/PLENTY OF W ATER FOR @ LEAST 15 MINS. IF IRRIT/DISCOMFORT OCCURS, CONSULT PHYS. NOTES TO PHYS (INCLDG ANTIDOTES):TREAT SYMPTOMATICALLY. Flash Point:NONE Extinguishing Media: NOT APPLICABLE. MEDIA SUITABLE FOR SURROUNDING FIRE Fire Fighting Procedures: NOT APPLICABLE. USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard:NONE. ====== Accidenta I Release Measures ======== Spill Release Procedures: VACUUM SPILLED MATL & PLACE IN CLSD PLASTIC BAGS FOR DISPOSAL. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============ Handling and Storage =========================== Handling and Storage Precautions: STORE IN DRY AREA. AVOID PRLNGD/RPTD INHAL OF DUST. MAY IRRITATE RESP TRACT. AVOID CONT W/EYES. MAY CAUSE IRRIT & PAIN. Other Precautions: AVOID PRLNGD, RPTD, OR EXCESSIVE CONT W/SKIN. MAY **CAUSE IRRIT &** DISCOMFORT. USE W/ADEQ VENT. VENT MSUT BE SUFFICIENT TO LIM EMPLOYEE EXPOS TO PROD BELOW PEL EXPOS LIMS. OBSERVANCE OF LOWER LIMS IS ADV ISABLE. ===== Exposure Controls/Personal Protection ========

Respiratory Protection: NIOSH/MSHA APPRVD DUST FILTER RESPIRATOR EXPOS ABOVE PEL EXPOS LIMS. RESP USE LIMITATIONS MAY BE NIOSH/MSHA/MFR MUST BE OBSERVED. RESP PROT PROGRAMS MUST BE I/A/W 29 CFR 1910.134. Ventilation: GEN/LOC EXHAUST SUFFICIENT TO MAINTAIN EMPLOYEE EXPOS **BELOW** 

PEL EXPOS LIMITS.

Protective Gloves: CLOTH, LEATHER, OR RUBBER.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS.

Other Protective Equipment: BOOTS, APRONS, OR CHEM SUITS SHOULD BE USED WHEN NEC TO PVNT SKIN CONT. PERSONAL PROT CLTHG & USE OF EQUIP MUST (ING 7)

Work Hygienic Practices: WASH THORO EVERYDAY AFTER WORK. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

PH:6.5-7.3 (5% SUSPENSION). MATLS TO AVOID:ADDITIVES MAY ALTER TOXICOLOGICAL PROPETIES.

EFTS OF OVEREXP:DURATION OF DUST EXPOS.

LAB STUDIES HAVE ALSO BEEN CONDUCT IN SM ANIMALS VIA INHAL TO LEV
OF PRE CIPATED SILICA DUST OF UP TO 126 MG/CU.M. FOR PERIODS FROM 6
MONTH TO 2 YRS. ALTHOUGH PRECIPATED SILICA WAS (ING 3)

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

Vapor Pres:NONE pH:SUPDAT Solubility in Water:ESSNTLY INSOLUBLE Appearance and Odor:WHITE, ODORLESS POWDER

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

## Stability I

ndicator/Materials to Avoid:YES

AVOID ALTERATION OF PROD PROPERTIES BEFORE USE. CALCINING, WHICH MAY RSLT IN CRYSTALLINE FORMATION/MIXING WITH (SUPDAT)

Stability Condition to Avoid:HIGH TEMPERATURES (>800C) TREATMENT (CALCINING).

Hazardous Decomposition Products: NONE.

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

Waste Disposal Methods:WASTE FROM THIS PROD MAY BE DISPOSED OF IN SANITARY LANDFILL IF FEDERAL, STATE AND LOCAL REGS PERMIT. CARE SHOULD BE EXERC

ISED TO AVOID CREATION OF DUST DURING DISPOSAL OPERATIONS.

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