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ROCKWELL INTERNATIONAL CORP -- ASBESTOS-CONTAINING BRAKE LININGS 2530-00-915-8590

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Product ID:ASBESTOS-CONTAINING BRAKE LININGS MSDS Date:09/25/1986 FSC:2530 NIIN:00-915-8590 MSDS Number: BQQGH === Responsible Party === Company Name: ROCKWELL INTERNATIONAL CORP City:LOUISVILLE State:KY Country:US Info Phone Num:606-525-3809 Emergency Phone Num:606-371-3874 CAGE: 6R673 === Contractor Identification === Company Name: HYSTER CO Address:1813 E VOORHEES ST Box:City:DANVILLE State:IL ZIP:61832-2112 Country:US CAGE:1HS95 Company Name: ROCKWELL INTERNATIONAL CORP Box:City:LOUISVILLE State:KY Country:US Phone:606-371-3874 CAGE:6R673

Ingred Name:ASBESTOS, CHRYSOTILE CAS:12001-29-5 RTECS #:CI6478500 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.2 FIBERS/CC ACGIH TLV:2 FIBERS/CC; A1;9293

Ingred Na

me:SILICA, SILICATES, CRYSTALLINE - TRIPOLI CAS:1317-95-9 RTECS #:VV7336000 Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE TABLE Z3 ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:CARBON BLACK CAS:1333-86-4 RTECS #:FF5800000 Other REC Limits:NONE RECOMMENDED OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3; 9293

Ingred Name:GRAPHITE, SYNTHETIC, COAL, COKE CAS:7440-44-0 RTECS #:FF5250100 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:PHENOLIC, ISOPRENE OR CASHEW RESINS Other REC Limits:5 MG/M3 OSHA PEL:15 MG/M3 TOTAL DUST ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:WOOD FLOUR AND OTHER FILLERS Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3/ 10 STEL ACGIH TLV:1 MG/M3

Ingred Name:IRON OXIDE CAS:1309-37-1 RTECS #:NO7400000 Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 (FE) ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:ZINC (SARA III) CAS:7440-66-6 RTECS #:ZG8600000 Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG ZNO/M3 ACGIH TLV:10 MG ZNO/M 3; 9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:ALUMINUM (SARA III) CAS:7429-90-5 RTECS #:BD0330000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:MAGNESIUM OXIDE CAS:1309-48-4 RTECS #:OM3850000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:COPPER (11) OXIDE CAS:1317-38-0 RTECS #:GL7900000 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV: 0.2MG/M3 FUME; 9293

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:FLUORIDES Other REC Limits:NONE RECOMMENDED OSHA PEL:2.5 MG/M3 ACGIH TLV:2.5 MG/M3

Ingred Name:RUBBER Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TOTAL DUST ACGIH TLV:10 MG/M3 TOTAL DUST

Ingred Name:BARIUM COMPOUNDS Other REC Limits:NONE RECOMMENDED OSHA PEL:0.5 MG/M3 ACGIH TLV:0.5 M G/M3; 9293

Ingred Name:IRON CAS:6596-57-0 Other REC Limits:NONE RECOMMENDED

Ingred Name:ZINC OXIDE CAS:1314-13-2 RTECS #:ZH4810000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15MG/M3 TDUST/5 FUME ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:ALUMINUM OXIDE Other REC Limits:NONE RECOMMENDED

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and C

hronic:ACUTE: METAL DUSTS CAN IRRITATE EYES AND UPPER RESPIRATORY SYSTEM. CASHEW RESINS MAY CAUSE DERMATITIS. CHRONIC: DUST FROM ABRASIVE ACTIONS CONTAIN ASBESTOS FIBERS.

CHRONIC OVEREXPOSURE TO AIRBORNE FIB ERS MAY LEAD TO ASBESTOSIS AND MESOTHELIOMA. SMOKING COMBINED WITH FIBER INHALATION GREATLY INCREASES LUNG CANCER RISK.

Explanation of Carcinogenicity:CONTAINS A [1332-21-4] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. Effects of Overexposur

e:INHALATION: COUGHING, WHEEZING, SHORTNESS OF BREATH, IMPAIRED PULMONARY FUNCTION. SKIN: ITCHING, RASH. EYES: MECHANICAL IRRITATION FROM AIRBORNE DUST. INGESTION: GASTROINTESTINAL DISTURBANCES. SUCH SY MPTOMS DO NOT MANIFEST THEMSELVES UNTIL15 TO 20 YEARS AFTER FIRST EXPOSURE. Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING SKIN OR RESPIRATORY CONDITIONS MAY BE MORE AT RISK FROM EXPOSURE TO

DUSTS OF THIS PRODUCT. WILSON'S DISEASE MAY BE AGGRAVATED BY

EXPOSURE TO COPPER.

First Aid:INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ADVICE. SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. EYES: FLOOD WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. INGESTION: DRINK WATER. DO NOT INDUCE VOMITING. SEE DOCTOR. OTHER: CHANGE CLOTHING AS REQUIRED TO AVOID CARRYING DUST PARTICLES INTO OTHER AREAS.

Flash Point:NONE Extinguishing Media:WATER OR CLASS A, B OR C EXTINGUISHER. Fire Fighting Procedures: COMBUSTION PRODUCTS OF THIS MATERIAL MAY BE TOXIC. USE A SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER. Spill Release Procedures: USE PROPER PERSONAL PROTECTION. VACUUM OR WET CLEAN IF DUST IS INVOLVED. ANY VACUUM SYSTEM SHOULD BE EQUIPPED WITH AN OUTLET "HEPA" FILTER TO PREVENT REINTRODUCING ASBESTOS FIBERS TO THE ATMOSPHERE. D O NOT USE BROOMS OR COMPRESSED AIR ON DRY MATERIAL Neutralizing Agent:NOT APPLICABLE. Handling and Storage Precautions: AVOID SCRAPING OR SCRATCHING BRAKE LININGS OR OTHERWISE CREATING DUST DURING ASSEMBLY. BRAKE SERVICING SHOULD BE DONE INAREA SET ASIDE FROM OTHER AREA Other Precautions: DURING BRAKE MAINTENANCE, CLEAN **BRAKE PARTS WITH** VACUUM WITH A HEPA FILTER AND THEN WIPE WITH DAMP RAGS TO REMOVE ASBESTOS-CONTAINING RESIDUE. DISPOSE OF USED RAGS WHILE STILL WET IN SEALED IMPERMEABL E BAGS. Respiratory Protection: IF EXPOSURES EXCEED ESTABLISHED LIMITS, A NIOSH/ MSHA APPROVED RESPIRATOR FOR ASBESTOS SHOULD BE USED. CONSULT YOUR SAFETY OFFICE/INDUSTRIAL HYGIENIST PERSONNEL FOR GUIDANCE FOR THE TASK AT HAND. Ventilati on:LOCAL EXHAUST IS RECOMMENDED IN SITUATIONS WHERE DUST IS GENERATED BY ABRASIVE ACTIONS, ABRASION OR OTHER MEANS. Protective Gloves: AS REQUIRED FOR TASK AT HAND. Eye Protection: SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES Other Protective Equipment: AS REQUIRED FOR TASK AT HAND, AND THE GUIDANCE SET FORTH BY YOUR SAFETY OFFICE OR INDUSTRIAL HYGIENIST PERSONNEL. Work Hygienic Practices: DO NOT INHALE DUST CREATED BY ABRADING ACTIONS. USE FULL PROTECTION AGAINST AIRBORNE FIBERS. AVOID A

IRBORNE DUST CREATION Supplemental Safety and Health OSHA REQUIRES THAT WORKERS EXPOSED TO ASBESTOS BE TRAINED ANNUALLY AS TO ITS POTENTIAL HAZARDS AND THE MEANS OF REDUCING THOSE HAZARDS. IT ALSO REQUIRES MONITORING EVERY SIX MONTHS OF WORKER ASBESTOS EXPOSURE IF IT MAY REASONABLY BE EXPECTED TO BE ABOVE 0.1 F/CC.

HCC:T7 Spec Gravity:1.6-3.0 Evaporation Rate & amp; Reference:NONE Solubility in Water:NEGLIGIBL E Appearance and Odor:SOLID, LIGHT TAN TO DARK GRAY IN COLOR. Percent Volatiles by Volume:NONE

Stability Indicator/Materials to Avoid:YES AVOID STRONG OXIDIZERS FOR LININGS WITH RUBBER CONTENT. Stability Condition to Avoid:AVOID CREATING AND BREATHING DUST. Hazardous Decomposition Products:INCOMPLETE COMBUSTION MAY CREATE TOXIC FUMES.

Waste Disposal Meth

ods:WASTE CONTAINING ASBESTOS OR OTHER HAZARDOUS MATERIALS SHOULD BE COLLECTED AND DISPOSED OF IN SEALED, IMPERMEABLE BAGS OR OTHER CLOSED, IMPERMEABLE CONTAINERS WITH PROPER LABELS IN ACCORDANCE WITH APP LICIABLE REGULATIONS.

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