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DATE OF ISSUE
6/21/2002SUPERSEDES
5/30/2002

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

N/A
Chemical Family:
SODIUM METASILICATE BLEND

Trade Name & Synonyms

M/M GREASERELEASE WIPES

Formula Mixture --> X

Manufacturer's Name:

MANTEK, DIVISION OF NCH CORP.

Address:

BOX 152170
IRVING, TEXAS 75015

Prepared By:

C Williamson/Chemist

Product Code Number

4317

Emergency Phone Number:

800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)

SODIUM METASILICATE
SODIUM TRIPOLYPHOSPHATE
NONYLPHENOL POLYETHYLENE GLYCOL ETHER
QUATERNARY AMMONIUM SALT
\$ SODIUM HYDROXIDE CEILING LIMIT

Hazard

TLV

PEL

STEL

CAS

CORROSIVE	2 MG/M3 \$1	N/E	2	N/E	6834-92-0
IRRITANT	N/E 1	N/E	2	N/E	7758-29-4
IRRITANT	N/E 1	N/E	2	N/E	127087-87-0
IRRITANT	N/E 1	N/E	2	N/E	TRADE SECRET

SECTION III - PHYSICAL DATA

Boiling Point (F): 212***

Specific Gravity (H2O=1):

1.02

Vapor Pressure (MM HG): 18

Color:

YELLOW

Vapor Density (Air=1): >1

Odor:

MILD DETERGENT

PH @ 100% : 11-12

Clarity:

OPAQUE

Soluble by Volume: 90

Evaporation Rate (BU A/C=1):

<1

H2O Solubility: COMPLETE

Viscosity:

TOWEL

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point
> 212°F / T.C.C.Flammable Limits
HYDROGEN GASLEL
4.0%UEL
75%

Extinguishing Media

X <--Foam X <--Alcohol Foam X <--CO2 X <--Dry Chemical X <--Water Spray <--Other

Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.

Unusual Fire and Explosion Hazards:

SPRAY PLASTIC OVERWRAP WITH WATER TO PREVENT IT FROM BURNING AND PRODUCING POTENTIALLY TOXIC FUMES. PROLONGED CONTACT WITH REACTIVE METALS SUCH AS ALUMINUM, ZINC, MAGNESIUM AND COPPER CAN CAUSE THE FORMATION OF FLAMMABLE HYDROGEN GAS WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR.

Aerosol Level (NEPA 30B): N/A

NEPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

3 <--Health 1 <--Flammability 0 <--Instability <--Special

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

2 MG/M3 AS SODIUM HYDROXIDE CEILING LIMIT 1.

Effects of Overexposure:

-Acute (Short Term Exposure)

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS SWELLING, STINGING, TEARING, REDNESS AND A BURNING SENSATION. SKIN CONTACT: CAUSES SEVERE IRRITATION SEEN AS REDNESS, ITCHING AND A BURNING SENSATION. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING; MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SEEN AS HEADACHE, DIZZINESS, WEAKNESS, NAUSEA AND VOMITING. INGESTION: CAUSES IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

-Chronic (Long Term Exposure)

SKIN CONTACT MAY PROMOTE DERMATITIS.

L. CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS.

TARGET ORGANS: CENTRAL NERVOUS SYSTEM.

Primary Routes of Entry:

<--Inhalation <--Ingestion X <--Absorption

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL

SECTION V - HEALTH HAZARD DATA (Continued)

ATTENTION:

-Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

-Skin Contact:

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. WASH AFFECTED AREAS THOROUGHLY WITH LARGE AMOUNTS OF SOAP AND WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. DISCARD OR CLEAN CLOTHING AND SHOES.

-Ingestion:

NOT A LIKELY HAZARD AS PRODUCT IS A MOIST TOWELETTE. IF INGESTION OCCURS, GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

** THE PHYSICAL CHARACTERISTICS ARE THOSE OF THE LIQUID PRIOR TO IT BEING IMPREGNATED ONTO THE TOWEL.

PRODUCT MIXTURE

SKIN-RBT SDT: PRIMARY IRRITATION SCORE 6.08 (SEVERELY IRRITATING) 4.
EYE-RBT: SEVERELY IRRITATING 4.

SODIUM METASILICATE

SKN-HMN SDT: 250 MG/24H SEVERE 3.
SKN-RBT SDT: 250 MG/24H SEVERE 3.
ORL-RAT LD50: 1153 MG/KG 3.
ORL-HMN (MAN) TDLO: 1 ML/KG 3.

WHEN TESTED FOR PRIMARY EYE IRRITATION POTENTIAL, ANHYDROUS SODIUM METASILICATE PRODUCED CORROSIVE, IRREVERSIBLE INJURY. A 10.0% WATER SOLUTION OF SODIUM METASILICATE PRODUCED CORNEAL OPACITY GRADE RANGE 2-4 AND SLOUGHING, IRITIS GRADE 1-2, AND CONJUNCTIVAL CHEMOSIS GRADE 2-3 AND REDNESS GRADE 3. A 5.0% WATER SOLUTION OF SODIUM METASILICATE PRODUCED CORNEAL OPACITY GRADE 1, IRITIS GRADE 1-2, AND CONJUNCTIVAL CHEMOSIS GRADE 2-3 AND REDNESS GRADE 3. 4.

SODIUM TRIPOLYPHOSPHATE MIXTURE

ORL-RAT LD50: 5400 MG/KG 4.
IHL-RAT LC50: >0.39 MG/L/4HR 4.
SKN-RBT LD50: >7940 MG/KG 4.
SKN-RBT: 0-0/8.0/24 HR EXP: NOT IRRITATING 4.
EYE-RBT: 3.3/110.0: SLIGHTLY IRRITATING 4.

RATS FED SODIUM TRIPOLYPHOSPHATE ANHYDROUS IN THEIR DIET FOR TWO YEARS EXHIBITED DECREASED GROWTH, INCREASED KIDNEY/BODY WEIGHT RATIOS AND KIDNEY CHANGES. 4.

NONYLPHENOL POLYETHYLENE GLYCOL ETHER MIXTURE

ORL-RAT LD50: 1.3 G/KG 4.
SKN-RBT LD50: 2 ML/KG/24HR OCCLUDED 4.
SKN-RBT: NO IRRITATION (UNCOVERED) 4.
EYE-RBT: 0.5 ML @ 5% DILUTION (SEVERE CORNEAL INJURY) 4.

CONTAINS SURFACTANT WHICH, BASED ON STUDIES WITH RABBITS INVOLVING THE SUSTAINED OCCLUDED CONTACT OF THE UNDILUTED SURFACTANT WITH SKIN, INDICATE THAT SUCH CONDITIONS MAY RESULT IN THE DEVELOPMENT OF INFLAMMATORY CHANGES IN THE LUNG. SEVERAL STUDIES HAVE RESULTED IN SLIGHTLY INCREASED KIDNEY WEIGHTS IN MALE RATS CONTINUOUSLY EXPOSED TO NONYLPHENOL AT DIETARY CONCENTRATIONS OF 200 PPM OR GREATER. TUBULAR DEGENERATION WAS OBSERVED AT 650 AND 2000 PPM. 4.

QUATERNARY AMMONIUM SALT

IHL-RAT LC50: 20000 PPM/10H 4.
ORL-RAT LD50: 7060 MG/KG 4.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable

Conditions to Avoid:

N/A

Incompatibility (Material* to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; STRONG ACIDS, REACTIVE METALS SUCH AS ALUMINUM, ZINC, MAGNESIUM, COPPER AND THEIR ALLOYS; MATERIALS REACTIVE WITH HYDROXYL COMPOUNDS; LEATHER AND WOOL.

Hazardous Decomposition Products:

OXIDES OF CARBON, NITROGEN AND POTASSIUM; AMMONIA AND POTENTIALLY TOXIC FUMES FROM THE THERMAL DEGRADATION OF PLASTIC.

Hazardous Polymerization:

<--May Occur X <--Will Not Occur

Conditions to Avoid:

N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

PRODUCT IS A MOISTENED TOWEL IN A PLASTIC OVERWRAP. PICK UP FOR REUSE.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

SECTION VIII - SPILL OR LEAK PROCEDURES (Continued)

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

VENTILATION IS NORMALLY ADEQUATE.

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN WHEN HANDLING.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X

Outdoors-->

Heated-->

Refrigerated-->

Minimum Temperature: 35°F Maximum Temperature: 120°F

Precautions to be Taken in Handling and Storing:

KEEP IN PLASTIC OVERWRAP TO PREVENT THE TOWEL FROM DRYING OUT.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

Chemical Name

None

CAS Number

Upper & Limit

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.

This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001.
2. OSHA PEL.
3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2001.
4. VENDOR'S MSDS.

ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE,
CORR: CORROSIVE CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT
APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP,
PMCC: PENSKY-MARTIN CLOSED CUP, TCC: TAGLIABUE CLOSED CUP,
LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT,
NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL
AGENCY FOR THE RESEARCH ON CANCER, NTP: NATIONAL TOXICOLOGY
PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION,
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL
HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE
EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD,
MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXANT,
PNOS: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED,
SDT: STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN,
IHL: INHALATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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