MATERIAL SAFETY DATA SHEET: M/M CHILL CLEAN AEROSOL

(000000-000000- -5235)

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SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms
N/A

Trade Name & Synonyms
M/M CHILL CLEAN AEROSOL

Chemical Family:
ANTI GLYCOL SOLUTION

Formula Mixture --> X

Manufacturer's Name:
CERTIFIED LABS, DIV. OF MCH CORP.

Address:
BOX 152170
IRVING, TEXAS 75015

Prepared By:
R STOLLEY/CHEMIST

Product Code Number
5235

Emergency Phone Number
800-424-9300

SECTION II - HAZARDOUS INGREDIENTS
THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV		PEL		STEL	CAS #
POLY(OXYETHYLENE/OXYPROPYLENE) GLYCOL	IRRITANT	NOT EST.	1	NOT EST.	2	NOT EST.	9003-11-6
TRIETHANOLAMINE	IRRITANT	5 MG/M3	1	NOT EST.	2	NOT EST.	102-71-6
N-BUTANE	FLAM/IRR	800 PPM	1	800 PPM	2	NOT EST.	106-97-8

SECTION III - PHYSICAL DATA

Boiling Point (F):	210	Specific Gravity (H2O=1):	1.0
Vapor Pressure (MM HG):	17.5	Color:	WATER-WHITE
Vapor Density (Air=1):	0.6	Odor:	SOAPY
pH @ 100% :	11.6	Clarity:	TRANSPARENT
% Volatile by Volume:	96	Evaporation Rate (BU A/Ctl):	2.1
% Solubility:	APPRECIABLE	Viscosity:	NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point
>210 F / SETAFLASH

Flammable Limits
N/A

LEL N/A | UEL N/A

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:
FLAME EXTENSION IS 0 INCHES, BURNBACK IS 0 INCHES. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING.

Aerosol Level (NFPA 30B): 1

NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
1 <--Health 1 <--Flammability 0 <--Instability <--Special

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED FOR PRODUCT MIXTURE. SEE SECTION II.

Effects of Overexposure:
-Acute (Short Term Exposure)
EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING AND REDNESS. SWELLING OF THE CONJUNCTIVA MAY OCCUR. COMPRESSED LIQUID MAY CAUSE FROSTBITE AND BURNS. SKIN CONTACT: CAUSES SEVERE IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED OR REPEATED CONTACT MAY RESULT IN ALLERGIC REACTION IN SOME INDIVIDUALS. COMPRESSED LIQUID MAY RESULT IN FROSTBITE AND BURNS. INHALATION: INHALATION OF MIST CAUSES IRRITATION OF THE NOSE, THROAT AND LUNGS SEEN AS COUGHING AND CHEST PAIN. INGESTION: CAUSES GASTROINTESTINAL IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA. MAY CAUSE DIZZINESS, DROWSINESS, FAINTNESS, COLLAPSE AND POSSIBLY COMA IN EXTREME CASES.

-Chronic (Long Term Exposure)
REPEATED OVEREXPOSURE TO THIS MATERIAL MAY CAUSE DAMAGE TO THE KIDNEYS, AND LIVER. TARGET ORGANS: LIVER AND KIDNEYS. THIS PRODUCT MAY AGGRAVATE PRE-EXISTING LIVER, KIDNEY, RESPIRATORY AND SKIN CONDITIONS. MAY CAUSE DERMAL SENSITIZATION TO SENSITIVE INDIVIDUALS.

Primary Routes of Entry: X <--Inhalation <--Ingestion X <--Absorption

Emergency and First Aid Procedures:
-Inhalation:
REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

-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

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SECTION V - HEALTH HAZARD DATA (Continued)

RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

-Skin Contact:
WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET IMMEDIATE MEDICAL ATTENTION. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

-Ingestion:
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:
NONE KNOWN.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:
IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

POLY(OXYETHYLENE/OXYPROPYLENE) GLYCOL
ORL-RAT LD50: 2300 MG/KG 3.
IPR-RAT LD50: 1140 MG/KG 3.
ORL-MUS LD50: 1830 MG/KG 3.
TRIETHANOLAMINE
SKN-RBT LD50: 20 ML/KG 4.
ORL-RAT LD50: 8 G/KG 3.
SKN-RBH 15 MG/3D-I MILD 3.
SKN-RBT 560 MG/24H MILD 3.
EYE-RBT 10 MG MILD 3.
OBSERVATIONS IN ANIMALS INCLUDE LIVER AND KIDNEY EFFECTS.
TRIETHANOLAMINE DID NOT CAUSE CANCER IN LONG TERM ANIMAL STUDIES. RESULTS OF IN VITRO MUTAGENICITY HAVE BEEN NEGATIVE ON COMPONENTS. SECONDARY AND TERTIARY AMINES MAY REACT WITH NITROSATING AGENTS TO FORM NITROSAMINES. SOME NITROSAMINES HAVE BEEN SHOWN TO BE CARCINOGENIC IN LABORATORY ANIMALS. 4.
N-BUTANE
INH-RAT LC50: 658 G/M3/4H 3.
INH-MUS LC50: 680 G/M3/2H 3.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable
Conditions to Avoid:
AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Incompatibility (Materials to Avoid):
OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND HYDROGEN PEROXIDE, REDUCING AGENTS SUCH AS THIOSULFATE, AND ACIDS.

Hazardous Decomposition Products:
OXIDES OF CARBON.

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:
DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING.

Waste Disposal Method(s):
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:
NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:
GENERAL VENTILATION IS NORMALLY ADEQUATE.

Respiratory Protection:
A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection:
NEOPRENE RUBBER OR NITRILE GLOVES SHOULD BE WORN.

Eye Protection:
CHEMICAL GOGGLES SHOULD BE WORN.

Other Protection:
WEAR PROTECTIVE CLOTHING WHEN HANDLING.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
Minimum Temperature: 32 F Maximum Temperature: 120 F

SECTION X - STORAGE AND HANDLING INFORMATION (Continued)

Precautions to be Taken in Handling and Storing:
DO NOT USE OR STORE AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

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	CAS Number	Upper % Limit
None		

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 1-800-527-8919 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, 1996.
2. OSHA PEL.
3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS, SR.
4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODI.ec, 1996.
ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

IRR:IRRITANT, FLAM/FLAME: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 CLOSEDCUP, 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, ACHGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LEVEL, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE,
MUT:MUTAGENIC,ASPHYX:ASPHYXIANT,PNOC:PARTICULATES NOT OTHERWISE CLASSIFIED

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