

MATERIAL SAFETY DATA SHEET LIQUID DRAIN CLEANER

DATE OF ISSUE: 01/01/2004
SUPERCEDES:

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: N/A Trade Name & Synonyms: LIQUID DRAIN CLEANER

Chemical Family: SULFURIC ACID MIXTURE Formula Mixture: X

Manufacturer's Name: PLUMMASTER PRO, GROUP OF PLUMMASTER INC.

Address: P.O. BOX 850
CONCORDVILLE, PA 19331

Prepared By: R Stolley/Chemist
Product Code Number: 97533 Group Code: 00061824
Emergency Phone Number: CHEMTRAC: 800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

Chemical Name (Ingredients): SULFURIC ACID
Percent: > 50
Hazard: CORROSIVE
TLV: 1MG/M3 1.
PEL: 1MG/M3 2.
STEL: 3MG/M3
CAS#: 7664-93-9

SECTION III - PHYSICAL DATA

Boiling Point (f): 529
Specific Gravity (H2O=1): 1.8
Vapor Pressure (MM HG): 0.0016
Color: CLEAR TO AMBER
Vapor Density (Air=1): 3.40
Odor: SHARP, PENETRATING
PH @ 100%: 10% = <1
Clarity: CLEAR TO OPAQUE
Volatile by Volume: 7.00
Evaporation Rate (BU A/C=1): NOT EST.
H2O Solubility: COMPLETE
Viscosity: SLIGHT VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: NON-FLAM /

Flammable Limits: N/A

LEL: N/A

UEL:N/A

Extinguishing Media:

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.

Unusual Fire and Explosion Hazards:

WHERE SULFURIC ACID IS INVOLVED IN A FIRE, WATER SPRAY MUST BE USED CAREFULLY AS THIS CAN RESULT IN A POSSIBLE VIOLENT REACTION.

Aerosol Level (NFPA 30B): N/A

NFPA 704 Hazard Rating:

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Health: 3 Flammability: 0 Instability: 2 Special: W

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

1 PPM AS SULFURIC ACID

Effects of Overexposure:

-Acute (Short Term Exposure)

SKIN CONTACT: CONCENTRATED SOLUTION CAUSES PAIN AND SEVERE BURNS, BROWNISH AND YELLOWISH STAINS. PROLONGED AND REPEATED EXPOSURE TO DILUTE SOLUTIONS MAY CAUSE IRRITATION, REDNESS, PAIN, DRYING AND CRACKING OF THE SKIN. EYE CONTACT: IMMEDIATE PAIN, SEVERE BURNS AND CORNEAL DAMAGE WHICH MAY RESULT IN BLINDNESS. IF SWALLOWED: SEVERE BURNING AND PAIN IN THE MOUTH, THROAT AND ABDOMEN. VOMITING, DIARRHEA AND PERFORATION OF THE ESOPHAGUS AND STOMACH LINING MAY OCCUR. INHALATION: MISTS AND VAPORS MAY CAUSE IRRITATION OF THE EYES, NOSE AND RESPIRATORY TRACT. MAY CAUSE INCREASED PULMONARY RESISTANCE, TRANSIENT COUGH AND BRONCHOCONSTRICTION. SEVERE OVEREXPOSURE MAY RESULT IN LUNG COLLAPSE AND PULMONARY EDEMA WHICH CAN BE FATAL.

-Chronic (Long Term Exposure)

REPEATED EXPOSURE MAY PRODUCE EROSION AND DISCOLORATION OF TEETH. CORROSIVE EFFECTS ON THE SKIN AND EYES MAY BE DELAYED, AND DAMAGE MAY OCCUR WITHOUT THE SENSATION OR ONSET OF PAIN. REPEATED OVEREXPOSURE MAY LEAD TO CONTACT DERMATITIS, BRONCHITIS WITH COUGH, PHLEGM, SHORTNESS OF BREATH AND EMPHYSEMA, CHRONIC RUNNY NOSE, TEARING OF THE EYES, NOSEBLEEDS AND STOMACH UPSETS. SKIN IRRITATION MAY BE AGGRAVATED IN INDIVIDUALS WITH EXISTING SKIN LESIONS. BREATHING OF VAPORS OR SPRAYS (MISTS) MAY AGGRAVATE ACUTE OR CHRONIC ASTHMA AND CHRONIC PULMONARY DISEASE, I.E., EMPHYSEMA OR BRONCHITIS. ALTHOUGH THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY, THE PRIMARY ROUTE OF EXPOSURE IS SKIN AND EYE CONTACT. TARGET ORGANS: LARYNX AND LUNGS.

Primary Routes of Entry: Inhalation: Ingestion: 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 ATTENTION.

-Eye Contact:

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

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:

ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS AND SYMPTOMS OF DISTRESS IN THE PATIENT. MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE INCLUDE ASTHMA, BRONCHITIS, EMPHYSEMA AND OTHER LUNG DISEASES AND CHRONIC NOSE, SINUS OR THROAT CONDITIONS. SEVERITY OF THE BURN IS DETERMINED BY THE CONCENTRATION OF THE SOLUTION AND THE DURATION OF EXPOSURE. OINTMENTS OR CREAMS SHOULD NOT BE APPLIED BEFORE OR DURING WASHING PHASE OF TREATMENT.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No	NTP: No	OSHA: No	ACGIH: No
OTHER: Yes			

SULFURIC ACID

RBT-EYE: 100 MG RNS SEV	3.
IHL-HMN TCLo: 3MG/M3/24W	3.
ORL-RAT LD50: 2140 MG/KG	3.
IHL-RAT LC50: 510MG/M3/2H	3.

ALTHOUGH NO DIRECT LINK HAS BEEN ESTABLISHED BETWEEN EXPOSURE TO SULFURIC ACID, ITSELF, AND CANCER IN MAN, THE WORLD HEALTH ORGANIZATION (WHO) AND THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAVE CONCLUDED THAT OCCUPATIONAL EXPOSURE TO STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID IS CARCINOGENIC TO MAN, CAUSING CANCER OF THE LARYNX (THE VOICE BOX) AND, TO A LESSER EXTENT, THE LUNG. 4.

ECOTOXIC EFFECTS: HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. MAY BE DANGEROUS IF IT ENTERS WATER INTAKE.

FISH TOXICITY CRITICAL CONCENTRATION = 10MG/L; 7.34 MG/L/48 HRS. - LYMNEAE PALUSTRIS - 0-100% MORTALITY. 4.

SECTION VII - REACTIVITY DATA

Stability: Stable: X Unstable:

Conditions to Avoid: DO NOT ALLOW THE PRODUCT TO CONTACT WATER DURING STORAGE.

Incompatibility (Materials to Avoid):

WATER, ORGANIC MATERIALS (CHLORATES, CARBIDES, FULMINATES AND
PLOSATES), METALS, SOME PLASTICS AND COATINGS ***SEE SECTION XIII

Hazardous Decomposition Products:

HYDROGEN EVOLUTION IN CLOSED METAL CONTAINERS. WHEN HEATED TO
DECOMPOSITION, CAN EMIT SULFUR DIOXIDE AND SULFUR TRIOXIDE.

Hazardous Polymerization:

May Occur: Will Not Occur:

Conditions to Avoid: N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE
SYSTEMS AND BODIES OF WATER.

DIKE AND CONTAIN SPILL IF SAFE TO DO SO. ABSORB WITH AN INERT MATERIAL AND
TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR
APPROPRIATE PROTECTIVE CLOTHING AS PRODUCT IS CORROSIVE.

Waste Disposal Method(s):

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

Neutralizing Agent:

USE SODIUM BICARBONATE OR SODA ASH. ADD CAUTIOUSLY WHILE MIXING. WEAR
APPROPRIATE PROTECTIVE EQUIPMENT.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN
GENERATE MISTS OR VAPORS.

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.

A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS OR WHERE MISTING
EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

TIGHT FITTING CHEMICAL GOGGLES AND FACE SHIELD SHOULD BE WORN.

Other Protection:

SAFETY SHOWER, EYE WASH STATION, COVERALLS, RUBBER APRON AND BOOTS (KEEP PANT LEG
ON OUTSIDE OF BOOT).

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors: X Outdoors: Heated:
Refrigerated:

Minimum Temperature: 32°F

Maximum Temperature: 120°F

Precautions to be taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM WATER, ALKALIS, COMBUSTIBLES OR FINELY DIVIDED METAL POWDERS.

EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES THAT MAY EXHIBIT THE HAZARDS OF THE PRODUCT.

Other Precautions:

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

ALWAYS WEAR PERSONAL PROTECTIVE GEAR WHEN HANDLING.

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit
SULFURIC ACID	7664-93-9	95

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

CALIFORNIA PROPOSITION 65

WARNING: This product contains the following chemical(s) know to the State of California to cause (1)Cancer or (2)Birth Defects or other reproductive harm. THIS PRODUCT CONTAINS NONE.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENT AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1999.
 2. OSHA PEL.
 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2000.
 4. VENDOR'S MATERIAL SAFETY DATA SHEETS.
- *** AND CAUSTIC MATERIALS. WHILE DILUTING, ADD ACID TO WATER. DO NOT ADD WATER TO THE ACID.

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:ASPHYXIAN, PNO: PARTICULATES NOT OTHERWISE CLASSIFIED,
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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