

MATERIAL SAFETY DATA SHEET

Prepared According to 29 CFR 1910, 1200

N/A (Not Applicable) N/E (Not Established)

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Drain Opener
GENERIC NAME: Drain Cleaner
CHEMICAL FAMILY: Liquid Mixture
PROPER SHIPPING NAME: Corrosive Liquid, N.O.S.,
8 UN1760, PG III (Sodium Hydroxide, Sodium Hypochlorite)

HMS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH _____ 2
FLAMMABILITY _____ 0
REACTIVITY _____ 1
PERSONAL PROTECTION _____ C

HAZARD RATING

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS#	TLV	% WT (OPT)
Sodium hydroxide	1310-73-2	2mg/m3	<10%
Sodium hypochlorite	7681-52-9	N/E	<35%

SECTION III - PHYSICAL DATA

PHYSICAL DESCRIPTION: Clear pale yellow liquid, Chlorine odor
BOILING RANGE (°F): 200-210°F
VAPOR PRESSURE: N/E
% VOLATILE: N/A
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.10 ± 1%
EVAPORATION RATE: N/E
pH: 11.9 ± .5

SECTION IV - SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: None normally needed
PROTECTIVE GLOVES: Impervious
EYE PROTECTION: Safety glasses or goggles
VENTILATION: Room ventilation is generally adequate
OTHER PROTECTIVE EQUIPMENT: Sufficient to prevent skin contact.
Eyewash and shower located near the workplace.

SECTION V - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (Materials to Avoid): Strong acids and alkali

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION:
Will not occur

SECTION VI - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Non flammable
UPPER EXPLOSIVE LIMIT: N/A **LOWER EXPLOSIVE LIMIT:** N/A
EXTINGUISHING MEDIA: Use appropriate extinguishing media for the surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and full protective clothing should be worn when fighting fires involving chemicals.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

SECTION VIII - HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE (Primary Route of Entry)

SKIN: Corrosive
EYES: Corrosive
INHALATION: Corrosive

CARCINOGENS: None suspected

NTP: OSHA: IARC: ACGIH:
OTHER:

SECTION VII - FIRST AID

EYES: Flush with water for at least 15 minutes, be sure to keep eyelids opened. Get immediate medical attention if irritation persists.

SKIN: Wash with plenty of soap and water. Wash contaminated clothing before wearing. Get medical attention if irritation persists.

INGESTION: If ingested, give large quantities of water.
DO NOT INDUCE VOMITING. Contact physician immediately.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION: Remove victim to fresh air. If person is having difficulty in breathing, perform artificial respiration and get immediate medical attention.

SECTION IX - STORAGE AND HANDLING

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use common sense and sound industrial hygiene practices when handling this material as well as any other materials. Keep container closed when not in use. Wash hands after handling. Keep out of reach of children. Wear appropriate personal protection to avoid eye and skin contact.

SECTION X - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear necessary personal protective equipment. Evacuate all unnecessary personnel. Dike area to prevent spreading of the spilled material. Cover with an inert absorbent (sand, clay, etc.), shovel into appropriate containers, and dispose of in accordance with federal, state, and local regulations.

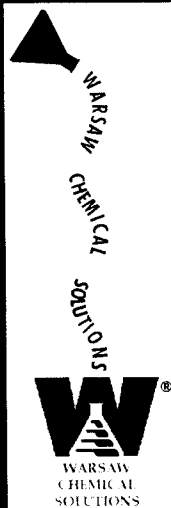
EMPTY CONTAINERS DISPOSAL: Any disposal practices must be in compliance with federal, state and local laws. Any questions regarding disposal should be directed to the proper government agency.

Manufactured By: WARSAW CHEMICAL CO., INC.
390 ARGONNE ROAD, P.O. BOX 858
WARSAW, IN 46581
574-267-3251 FAX 574-267-3884

INFOTRAC 24-hour emergency no. 1-800-535-5053

05/06/02

WAR 63581



TECHNICAL DATA SHEET

DRAIN OPENER

DESCRIPTION: Fast acting liquid DRAIN OPENER starts to work instantly. Harmless to plumbing. Can be used in plastic or metal drains.



Advantages:

No mixing. Fast acting, ready to use. Non-acid, non-fuming. Convenient, non breakable plastic bottle. Economical.

Heavier than water, so it falls through water to get to the obstruction. Dissolves grease, hair, fat, and soap scum on contact. lint, coffee grounds, cloth, and paper are freed.

Contains sodium hydroxide to dissolve fats, grease, and oil, as well as sodium hypochlorite to dissolve hair, toilet tissue, and facial tissue.

Specifications:

Physical Form	Clear liquid
Color	Light Yellow
Scent	Chlorine
Density	9.17 lbs. per gallon
Specific Gravity	1.10
pH Solution As Is	11.9 ± .5
Active Alkalinity	4.537%
Total Alkalinity	6.05%
Total Solids	17%
DOT Classification	Corrosive

Directions:

WEAR APPROPRIATE SAFETY EQUIPMENT TO PREVENT EYE AND SKIN CONTACT.

For open, free running drains:

4 fl. oz. per drain every week.

Slow drains:

8 fl. oz. per drain (allow to stand 30 minutes).

Clogged drains:

16 fl. oz. per drain. Allow to stand 30 minutes or longer. Repeat if necessary.

Avoid contact with any solution remaining from first treatment.

Will not lose strength. Do not use on aluminum. Keep off cabinet tops and floor coverings. Do not use with ammonia, toilet bowl cleaners, household cleaners, or other drain openers. Splashing or release of hazardous gases may result.

CAUTION:

KEEP OUT OF REACH OF CHILDREN

Shipping Weight in pounds:

Case 12 quarts

30.3 pounds

