

**MATERIAL SAFETY DATA SHEET
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**For Chemical Emergency, Spill, Leak, Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)**

PRODUCT INFORMATION

TRADE NAMES OR SYNONYMS: HYDROSKRUB
FORMULA: PROPRIETARY, CONFIDENTIALITY REQUIRED
CHEMICAL FAMILY: WATER SCALE CLEANER

HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	TLV (p.p.m.)	PEL (p.p.m.)	APPROXIMATE %
HYDROGEN CHLORIDE, AQUEOUS	5	5	LESS THAN 10

NOTE: Laboratory tests indicate material to be **BIODEGRADABLE**. Certified to NSF/ANSI 60. NSF Registered for use in beverage, pharmaceutical, bottling, poultry, and other food processing plants. USFDA has no jurisdiction over the product, since it does not come in direct contact with food. Non-reportable under Sara Title 3: Section 311/312/313 Categorization. Not reportable under CERCLA.

PHYSICAL DATA

BOILING POINT:	213° F / 101° C.
FREEZING POINT:	0° F / -18° C
SOLUBILITY IN WATER:	MISCIBLE
SPECIFIC GRAVITY, (WATER=1):	1.045
VAPOR PRESSURE:	30 TORR.
VAPOR DENSITY, (AIR=1):	GREATER THAN 1
PERCENT VOLATILE BY VOLUME:	99.6
APPEARANCE:	DARK LIQUID
ODOR:	ROASTED ALMONDS
pH:	UNREADABLE, GENERALLY <3
EVAPORATION RATE, (WATER=1):	SLOW
PHYSICAL STATE:	LIQUID

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	NO FLASH POINT, EXTINGUISHES FLAME
EXTINGUISHING MEDIA:	DOES NOT SUPPORT COMBUSTION
SPECIAL FIRE FIGHTING PROCEDURES:	NONE-WATER WILL CONTROL, OR CO2/DRY CHEMICALS
UNUSUAL FIRE & EXPLOSION HAZARDS:	NON-COMBUSTIBLE OR EXPLOSIVE. BREATHING APPARATUS RECOMMENDED

HMIS III

HEALTH:	0
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	B

HEALTH HAZARD DATA

**EFFECTS OF OVER EXPOSURE:
EMERGENCY & FIRST AID:**

SHOULD NOT BE CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.
IF EYE/SKIN CONTACT, COPIOUS WATER RINSE. CONSULT PHYSICIAN.
NOT TO BE TAKEN INTERNALLY. IF INGESTED-DO NOT INDUCE VOMITING-
DRINK MILK, EGG WHITES, ETC. AS DIRECTED BY PHYSICIAN.

NOTE:

ADVERSE EFFECTS ON HUMAN HEALTH ARE NOT EXPECTED FROM THE
HYDROSKRUB SOLUTION, BASED UPON 60+ YEARS OF USE WITHOUT
REPORTED ADVERSE HEALTH INCIDENCE IN DIVERSE POPULATION
GROUPS, INCLUDING EXTENSIVE USE IN THE U.S. ARMED FORCES.

REACTIVITY DATA

STABILITY:

STABLE

INCOMPATIBILITIES:

STRONG CAUSTICS

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

CONDITIONS TO AVOID:

EXCESSIVE HEATING

SPILL AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS:

RINSE WITH COPIOUS AMOUNTS OF WATER TO DILUTE: SODIUM
BICARBONATE MAY ALSO BE USED TO SOAK UP AND NEUTRALIZE LIQUID,
IF NECESSARY.

DISPOSAL METHOD:

EXPENDED OR USED MATERIAL MAY BE DISPOSED OF DOWN SEWER WITH
WATER FLUSH. MATERIAL IS **BIODEGRADABLE**-EVEN IN AS RECEIVED
FORM.

SPECIAL HANDLING INFORMATION

VENTILATION:

NORMAL (MECHANICAL)

RESPIRATORY:

NONE

PROTECTIVE GLOVES:

RECOMMENDED, SUCH AS NEOPRENE GLOVES.

EYE PROTECTION:

RECOMMENDED, SUCH AS CHEMICAL GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

AS RECOMMENDED BY PLANT SAFETY DEPARTMENT. TO PREVENT
STAINING OF CLOTHES, WEAR AN APRON.

SPECIAL PRECAUTIONS

HANDLING AND STORING:

PRESERVE INTEGRITY OF CONTAINER.

CAN MATERIAL BE STORED OUTSIDE?

YES, MAINTAIN TEMPERATURE BETWEEN 10°-180° F.

OTHER PRECAUTIONS:

Do not circulate material for more than a six hour period without consulting the manufacturer. Most **HYDROSKRUB** cleanings can be accomplished within an average of two-four hours. Please use material only as directed. If procedures are not published for your particular application, please call for assistance. Furthermore, **HYDROSKRUB** is designed to be used by itself or diluted with water and water only. Do not heat. Use **HYDROSKRUB** at an ambient temperature. Vent circulating solution to atmosphere. Some adverse reactions may occur with some alloys of aluminum, magnesium, and/or zinc. Please consult your **HYDROSKRUB** representative.

CAUTION: HYDROSKRUB is non-corrosive, but the application of HYDROSKRUB may expose pre-existing under deposit corrosion (pitting, holes or similar damage) that can result in leaks in pipes, equipment or systems.

**FOR ADDITIONAL INFORMATION, PLEASE REVIEW THE HYDROSKRUB SPECIFICATIONS OR
CONTACT OUR FACILITY AT 201-768-2400.**

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