SAFE D SCALE MSDS

MATERIAL SAFETY DATA SHEET

REVISED December, 2001

DeltaSafe D Scale Industrial Descaler

PRODUCT INFORMATION

TRADE NAMES OR SYNONYMS:

Safe D Scale Industrial Descaler

FORMULA: PROPRIETARY, CONFIDENTIALITY REQUIRED

CHEMICAL FAMILY: WATER SCALE, LIME & RUST SOLUTION

ACTIVE INGREDIENTS

MATERIAL OR COMPONENT

APPROXIMATE % LESS THAN 10

HYDROGEN CHLORIDE, AQUEOUS DELTA PROPRIETARY COMPOUNDS

LESS THAN 7

AMINE PENETRANT MIXTURE

LESS THAN 12

NOTE: This material is an aqueous organic solution and as such should NOT be considered hazardous under normal use conditions. Laboratory tests indicate material to be BIODEGRADABLE when used as directed. USDA has authorized this product for use in plants under their jurisdiction. A3 Cleaners with no food contact.

ŞARA TITLE III & TSCA

Section 302 Extremely Hazardous Substances or Section 313 Toxic Chemicals: ALL components of this product are listed on the TSCA list of controlled substances. None

PHYSICAL DATA

BOILING POINT: AROUND 213° F

SOLUBILITY IN WATER: COMPLETE

SPECIFIC GRAVITY, (WATER = 1): 1.046

VAPOR PRESSURÉ: 30 TORR.

VAPOR DENSITY, (AIR = 1): GREATER THAN 1

PERCENT VOLATILE BY VOLUME: 99.6%

APPEARANCE; DARK LIQUID WITH PRECIPITATE

ODOR: CHARACTERISTIC

FREEZING POINT AROUND 30° F

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, AS WILL CO.

UNUSUAL FIRE & EXPLOSION HAZARDS: NON-COMBUSTIBLE OR EXPLOSIVE.

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

PERSONAL PROTECTION: A GLASSES

HEALTH HAZARD DATA

THRESHOLD LIMIT VALVE: NONE FOR TOTAL - MATERIAL IS AN AQUEOUS ORGANIC

SOLUTION AND AS SUCH HAS LITTLE VAPOR PRESSURE.

NO NOXIOUS FUMES ARE GENERATED FROM ITS USE.

EFFECTS OF OVEREXPOSURE: EMERGENCY FIRST AID PROCEDURES:

NOT CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.
IF EYE/SKIN CONTACT, COPIOUS WATER RINSE, CONSULT A

PHYSICIAN. NOT TO BE TAKEN INTERNALLY. IF INGESTED-DO NOT INDUCE VOMITING - DRINK MILK, EGG WHITES, ETC. AS DIRECTED BY PHYSICIAN. WASH WITH SOAP AFTER USE.

REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITIES (MATERIALS TO AVOID): STRONG CAUSTICS AND/OR BLEACH PRODUCTS

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: EXCESSIVE HEATING OVER 120° F

SPILL AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS: RINSE WITH COPIOUS AMOUNTS OF WATER TO DILUTE TO DRAIN.

DISPOSAL METHOD: EXPENDED PRODUCT MAY BE DISPOSED DOWN SEWER WITH WATER

FLUSH PER LOCAL REGULATIONS. THIS MATERIAL IS BIODEGRADABLE.

SPECIAL HANDLING INFORMATION

VENTILATION: 1. LOCAL EXHAUST: NORMAL

2. MECHANICAL (GENERAL): SUFFICIENT

3. RESPIRATORY PROTECTION (TYPE): NONE REQUIRED

PROTECTIVE GLOVES: AS RECOMMENDED BY SAFETY DEPARTMENT.

EYE PROTECTION: AS RECOMMENDED BY SAFETY DEPARTMENT.

OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED, BUT DO AS RECOMMENDED BY SAFETY.

SPECIAL PRECAUTIONS

HANDLING AND STORING: NONE REQUIRED

CAN MATERIAL BE STORED OUTSIDE? YES, MAINTAIN MATERIAL BETWEEN 30°-120° F

OTHER PRECAUTIONS: Do not circulate material for more than a four hour period without

consulting the manufacturer. Most Safe D Scale cleanings may be accomplished in an average of two hours. Please use material only as directed. Use Safe D Scale at an ambient temperature. Do not pressurize circulating solution or elevate temperature above 120° F. Test on small hidden sample area for any compatibility concerns.

The suitability of this product for one's intended purpose is left to the user's judgement and responsibility. For additional product information, please contact Delta Products. This data is furnished independent of any sales of the product only for your investigation and independent verification. While information is believed to be correct, manufacturer shall in no event be responsible for any damage whatsoever, directly or indirectly, resulting from the publication or use of or reliance upon data contained herein. No warranty, either expressed or implied, of any merchantability, of fitness, or of any nature with respect to the product, or to the data, is made herein. This revised report complies with MSDS rules and is in accordance with 29 CFR 1910.1200-1500 Hazardous Communication Act effective November 25, 1985 including Subpart Z.