



DELTA
PRODUCTS
GROUP

8/22/2013

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MATERIAL SAFETY DATA SHEET

REVISED December 2005

DeltaDISSOLVE Institutional Descaler

PRODUCT INFORMATION

TRADE NAMES OR SYNONYMS: *DeltaDISSOLVE Institutional Descaler*
FORMULA: PROPRIETARY, CONFIDENTIALITY REQUIRED
CHEMICAL FAMILY: WATER SCALE, LIME & RUST SOLUTION

ACTIVE INGREDIENTS

MATERIAL OR COMPONENT	APPROXIMATE %
HYDROGEN CHLORIDE, AQUEOUS	LESS THAN 7
DELTA PROPRIETARY COMPOUNDS	LESS THAN 10
AMINE PENETRANT MIXTURE	LESS THAN 10
ALKANOLAMIDE SURFACTANTS	LESS THAN 5

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 pharmaceutical, bottling, poultry and other food processing plants.

PHYSICAL DATA

BOILING POINT: 210° F
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY, (WATER = 1): 1.026
VAPOR PRESSURE: 31 TORR.
VAPOR DENSITY, (AIR = 1): GREATER THAN 1
PERCENT VOLATILE BY VOLUME: 99.2%
APPEARANCE: LIGHT YELLOW WITH PRECIPITATE
ODOR: WINTERGREEN
FREEZING POINT: AROUND 30° F
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, AS WILL CO₂.
UNUSUAL FIRE & EXPLOSION HAZARDS: NON-COMBUSTIBLE OR EXPLOSIVE.
HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0
PERSONAL PROTECTION: A GLASSES

Single Source Solutions



HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 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: NOT CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.

EMERGENCY FIRST AID PROCEDURES: IF EYE 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 200° 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°-200° F

OTHER PRECAUTIONS: Do not circulate material for more than an eight hour period without consulting the manufacturer. Most **DeltaDISSOLVE** cleanings may be accomplished in an average of one hour. Please use material only as directed. Use **DeltaDISSOLVE** at an ambient temperature. Do not pressurize circulating solution or elevate temperature above 200° 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.

