



**DESCALER MATERIAL SAFETY DATA SHEET PUMPS AND SYSTEMS
990-0000-A001**

PRODUCT INFORMATION:

CHEMICAL NAME: TVP DESCALER
CHEMICAL FAMILY: WATER SCALE SOLVENT
FORMULA: PROPRIETARY

HAZARDOUS INGREDIENTS:

MATERIAL OR COMPONENT: HYDROGEN CHLORIDE, AQUEOUS
TVL (P.P.M.): 5
APPROXIMATE %: LESS THAN 10

NOTE: Material is aqueous organic slat solution and as such should not be considered hazardous under normal use conditions.

NOTE: Laboratory tests indicate material to be **BIODEGRADABLE**. **USDA** approved for use in beverage, pharmaceutical, bottling, poultry, and other food processing plants. **USFDA** has no jurisdiction over this product, since it never comes in direct contact with food.

PHYSICAL DATA:

BOILING POINT: 101°F
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: CHARACTERISTIC
EVAPORATION RATE (WATER= 1): SLOW
PHYSICAL STATE: LIQUID



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HEALTH HAZARD DATA:

THRESHOLD LIMIT VALUE: NONE FOR TOTAL – MATERIAL IS AN AQUEOUS ORGANIC SALT SOLUTION AND AS SUCH HAS LITTLE VAPOR PRESSURE AND NO NOXIOUS FUMES.

EFFECTS OF OVER EXPOSURE: SHOULD NOT BE CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.

EMERGENCY FIRST AID PROCEDURES: 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.

FIRE AND EXPLOSION HAZARDS:

FLASH POINT: NO FLASH POINT, EXTINGUISH FLAME

EXTINGUISHING MEDIA: DOES NOT SUPPORT COMBUSTION

SPECIAL FIRE FIGHTING PROCEDURES: NONE- WATER WILL CONTROL, AS WILL CO₂ AND DRY CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS: NON-COMBUSTIBLE OR EXPLOSIVE. BREATHING APPARATUS RECOMMENDED.

HMIS RATINGS:

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

PERSONAL PROTECTION: B

REACTIVITY DATA:

STABILITY: STABLE

INCOMPATIBLE MATERIALS: STRONG CAUSTICS

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: EXCESSIVE HEATING

SPILL AND DISPOSAL PROCEDURES:

NOTE: Rinse with copious amounts of water to dilute; Sodium Bicarbonate may also be used to soak up and neutralize liquid.

NOTE: Expended or used material may be disposed of down sewer system with water flush. Material is **BIODEGRADABLE** – even as received.



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SPECIAL HANDLING INFORMATION:

VENTILATION:

LOCAL EXHAUST: NORMAL

MECHANICAL (GENERAL): SUFFICIENT

RESPIRATORY PROTECTION (TYPE): NONE REQUIRED

PROTECTIVE GLOVES: RECOMMENDED

OTHER PROTECTIVE EQUIPMENT: AS RECOMMENDED BY PLANT SAFETY DEPARTMENT.

APRONS SHOULD BE WORN TO PREVENT CLOTHING FROM STAINING.

SPECIAL PRECAUTIONS:

HANDLING AND STORING: PRESERVE INTEGRITY OF CONTAINER

CAN MATERIAL BE STORED OUTSIDE?: YES. MAINTAIN TEMPRATURE

IS MATERIAL FREEZABLE?: YES

OTHER PRECAUTIONS: DO NOT CIRCULATE MATERIAL FOR MORE THAN A FOUR HOUR PERIOD WITHOUT CONSULTING THE MANUFACTURER. MOST **TVP DESCALER** CLEANING CAN BE ACCOMPLISHED IN AN AVERAGE OF TWO HOURS. PLEASE USE MATERIAL ONLY AS DIRECTED. DO NOT HEAT. USE **TVP DESCALER** AT AN AMBIENT TEMPRATURE. SO NOT PRESSURIZE CIRCULATING SOLUTION OR ELEVATE TEMPRATURE ABOVE 180°F.

NOTE: The information in this material safety data sheet should be provided to all who use, handle, store, transport, or are otherwise exposed to this product. TRAVAINI PUMPS believes the information in this document to be reliable and up to date of publication, but makes no guarantee that it is.

DOC: MATERIAL SAFETY DATA SHEET FOR TRAVAINI, P/N990-0000-A001
FILE: 9900000.DOC
REV: 7/8/97