

# MATERIAL SAFETY DATA SHEET

## 1 CHEMICAL PRODUCT AND COMPANY

DISTRIBUTED BY:

TRIDENT DIVING EQUIPMENT  
9616 OWENSMOUTH AVE  
CHATSWORTH, CA 91311  
PHONE 818-998-7518

PRODUCT NAME: ULTRA SONIC CLEANING SOLUTION; SA30, SA65  
PRODUCT TYPE: ORGANIC ACID MSDS DATE 2/10/1995

## 2 HAZARDOUS INGREDIENTS

	CAS NUMBER	OSHA(PEL)	ACGIH(TLV) %
CITRIC ACID	77-92-9		100%

## 3 PHYSICAL DATA

APPEARANCE & ODOR: WHITE CRYSTALLINE , NO ODOR DATA

BOILING POINT	N/A	SPECIFIC GRAVITY WATER =1	1.542 @ 68.F
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VAPOR PRESSURE (mmHg 20C)	N/A
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VAPOR DENSITY (AIR=1)	N/A	PHYSICAL STATE; SOLID, PH	N/A
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SOLUBILITY IN WATER	NO DATA	EVAP. RATE (BuAc=1)	1
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## 4 FIRE & EXPLOSION INFORMATION

FLASH POINT=N/A	AUTO IGNITION TEMP=N/A	FLAMMABLE LIMIT LEL=N/A UEL=N/A
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SPECIAL FIRE FIGHTING PROCEDURES: NONE  
UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

EXTINGUISHING MEDIA: ( X ) WATER SPRAY ( ) CARBON DIOXIDE ( ) FOAM ( X ) DRY CHEM ( ) N/A

HAZARDOUS PRODUCTS OF COMBUSTION; MAY FORM; CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS.

FIRE FIGHTING INSTRUCTIONS; WEAR A SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

NFPA RATING  
HEALTH - 1, FLAMMABILITY - 1, REACTIVITY - 0

## 5 REACTIVITY DATA

STABILITY	HAZARDOUS POLYMERIZATION	HAZARDOUS DECOMPOSITION BYPRODUCT
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(X)STABLE  
( )UNSTABLE

( ) MAY OCCUR  
(X)WILL NOT OCCUR

CARBON MONOXIDE, CARBON DIOXIDE  
VARIOUS HYDROCARBONS

CONDITIONS TO AVOID:  
N/A

CONDITIONS TO AVOID:  
NONE

NO FIRE OR EXPLOSIVE HAZARDS

MATERIALS TO AVOID; NONE

CONDITIONS TO AVOID; NONE

INCOMPATIBILITY, MATERIALS TO AVOID; REACTIVE METALS SUCH AS ALUMINUM AND MAGNESIUM, STRONG ALKALIES

## **6 HEALTH HAZARD INFORMATION & FIRST AID PROCEDURES**

THRESHOLD LIMIT VALUE; NOT ESTABLISHED

SIGNS AND SYMPTOMS OF EXPOSURE;

EYES; PROLONGED DIRECT EXPOSURE MAY IRRITATE EYES, STINGING MAY OCCUR  
TEARING, REDNESS AND SWELLING

SKIN; EXPOSURE CAUSES SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS,  
BURNING, AND SKIN DAMAGE

SWALLOWING; SINGLE DOSE ORAL TOXICITY IS LOW. SWALLOWING SMALL  
AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS;  
SWALLOWING LARGE AMOUNTS MAY BE HARMFUL

EMERGENCY AND FIRST AID PROCEDURES;

EYES; FLUSH WITH WATER FOR 15 MINUTES, CONTACT A PHYSICIAN IF  
IRRITATION PERSIST.

SKIN: REMOVE CONTAMINATED CLOTHING, WASH WITH SOAP AND WATER, IF  
IRRITATION CONTINUES CONTACT A DOCTOR

INGESTION;

IF SWALLOWED, GIVE TWO GLASSES OF WATER TO DRINK. CONSULT A PHYSICIAN.  
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION; IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE  
AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF  
BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET,  
SEEK IMMEDIATE MEDICAL ATTENTION

## **7 PRECAUTION FOR SAFE HANDLING AND USE**

HANDLING / STORAGE; CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED.  
SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND / OR SOLID),  
ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED

SMALL SPILL; SWEEP UP MATERIAL FOR DISPOSAL OR RECOVERY

VACUUMING OR WET METHODS OF PICK UP PREFERRED TO MINIMIZE DUST

WASTED DISPOSAL METHOD; CAN OR BAG TO MINIMIZE DUST.

STORE IN COOL DRY AREA

OTHER PRECAUTIONS; N/A

## **8 CONTROL MEASURES**

RESPIRATOR IN ACCORDANCE WITH OSHA 29 CFR 1910.134 & APPROVED BY NIOSH/MSHA

VENTILATION; LOCAL VENTILATION, SPECIAL N/A

PROTECTIVE GLOVES; RUBBER GLOVES

EYE PROTECTION; GOGGLES

OTHER PROTECTIVE EQUIPMENT OR CLOTHING; TO MINIMIZE SKIN CONTACT

WORK HYGIENIC PRACTICES; WASH THOROUGHLY AFTER HANDLING

LARGE SPILL; SHOVEL MATERIAL INTO CONTAINERS. THOROUGHLY SWEEP AREA OF SPILL TO CLEAN UP ANY RESIDUAL MATERIAL.

## **9 SPECIAL PROTECTION INFORMATION**

RESPIRATORY

VENTILATION

PROTECTIVE  
GLOVES

EYE PROTECTION

NONE

NONE

NONE

NONE

DUST MASK

LOCAL EXHAUST

RUBBER OR

SPLASH GOGGLES

CANISTER

MECHANICAL

NEOPRENE

FACE SHIELD

## **10 D.O.T. INFORMATION 49 CFR 172.101**

NON REGULATED BY D.O.T.

NON HAZARDOUS

DOT REPORTABLE QUANTITY; NONE

## **11 DISPOSAL CONSIDERATION**

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

MSDS PREPARED BY: QUALITY CONTROL DEPT.

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