# Chem-Impex International Inc.

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SAFETY DATA SHEET

## SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 33734

NAME: Acetic acid, glacial

SYNONYMS:

24 HOUR EMERGENCY (800) 535-5053(USA)

TELEPHONE:

352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE: (630) 766-2112

#### **SECTION 2. HAZARDS IDENTIFICATION**

## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

FLAMMABLE LIQUIDS (CATEGORY 3), H226 SKIN CORROSION (CATEGORY 1A), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

#### GHS LABEL ELEMENTS. INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM

SIGNAL WORD DANGER

HAZARD STATEMENT(S)

H226 FLAMMABLE LIQUID AND VAPOUR.

#### H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

PRECAUTIONARY STATEMENT(S)

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. -

NO SMOKING.

P233 KEEP CONTAINER TIGHTLY CLOSED.

P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.

P241 USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING

EOUIPMENT.

P242 USE ONLY NON-SPARKING TOOLS.

P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC

DISCHARGE.

P264 WASH SKIN THOROUGHLY AFTER HANDLING.

P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE

PROTECTION/ FACE PROTECTION.

P301 + P330 + P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.

P303 + P361 + P353 IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY ALL

 $CONTAMINATED \; CLOTHING. \; RINSE \; SKIN \; WITH \; WATER/ \; SHOWER.$ 

P304 + P340 + P310 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST

IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY

CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

P305 + P351 + P338 + F IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL

P310 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO

DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON

CENTER/DOCTOR.

P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.

P370 + P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-

RESISTANT FOAM TO EXTINGUISH.

P403 + P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

P405 STORE LOCKED UP.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE

DISPOSAL PLANT.

HAZARDS NOT NONE

**OTHERWISE** 

CLASSIFIED (HNOC) OR NOT COVERED

BY GHS

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:  $C_2H_4O_2$ 

MW: 60.05

CAS-NO. 64-19-7

PURITY: 99 - 100% (GC)

### HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Acetic acid, glacial		
	FLAM. LIQ. 3; SKIN CORR.	<= 100 %
	1A; EYE DAM. 1; H226,	
	H314, H318	
	CONCENTRATION LIMITS:	
	10 - < 25 %: EYE IRRIT. 2,	
	H319; 10 - < 25 %: SKIN	
	IRRIT. 2, H315; 25 - < 90	
	%: SKIN CORR. 1B, H314;	
	>= 90 %: SKIN CORR. 1A,	
	H314; >= 90 %: 3, H226	

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

### SECTION 4. FIRST-AID MEASURES

#### **DESCRIPTION OF FIRST AID MEASURES**

GENERAL ADVICE	FIRST AIDERS NEED TO PROTECT THEMSELVES. SHOW
	THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR I

THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN

ATTENDANCE.

AFTER INHALATION: FRESH AIR. CALL IN PHYSICIAN. IF INHALED

IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL IN CASE OF SKIN CONTACT CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/

SHOWER. CALL A PHYSICIAN IMMEDIATELY.

IN CASE OF EYE AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF **CONTACT** WATER. IMMEDIATELY CALL IN OPHTHALMOLOGIST.

REMOVE CONTACT LENSES.

IF SWALLOWED AFTER SWALLOWING: MAKE VICTIM DRINK WATER (TWO

GLASSES AT MOST), AVOID VOMITING (RISK OF

PERFORATION). CALL A PHYSICIAN IMMEDIATELY. DO NOT

ATTEMPT TO NEUTRALISE.

MOST IMPORTANT SYMPTOMS AND

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2)

AND/OR IN SECTION 11.

EFFECTS, BOTH ACUTE AND DELAYED

NO DATA AVAILABLE

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

#### SECTION 5. FIRE AND EXPLOSION DATA

**EXTINGUISHING MEDIA** 

**SUITABLE** SUITABLE EXTINGUISHING MEDIA

**EXTINGUISHING MEDIA** WATER FOAM CARBON DIOXIDE (CO2) DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA

FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF

EXTINGUISHING AGENTS ARE GIVEN.

SPECIAL HAZARDS COMBUSTIBLE.

FIRE MAY CAUSE EVOLUTION OF: ARISING FROM THE

SUBSTANCE OR MIXTURE ACETIC ACID VAPOURS

VAPORS ARE HEAVIER THAN AIR AND MAY SPREAD

ALONG FLOORS.

FORMS EXPLOSIVE MIXTURES WITH AIR AT ELEVATED

TEMPERATURES.

DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR

VAPOURS POSSIBLE IN THE EVENT OF FIRE.

ADVICE FOR STAY IN DANGER AREA ONLY WITH SELF-CONTAINED **FIREFIGHTERS** BREATHING APPARATUS. PREVENT SKIN CONTACT BY

KEEPING A SAFE DISTANCE OR BY WEARING SUITABLE

PROTECTIVE CLOTHING.

REMOVE CONTAINER FROM DANGER ZONE AND COOL **FURTHER INFORMATION** 

> WITH WATER. PREVENT FIRE EXTINGUISHING WATER FROM CONTAMINATING SURFACE WATER OR THE

GROUND WATER SYSTEM.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL** PRECAUTIONS.

PROTECTIVE EQUIPMENT AND EMERGENCY

PROCEDURES

ADVICE FOR NON-EMERGENCY PERSONNEL: DO NOT BREATHE VAPORS, AEROSOLS. AVOID SUBSTANCE

CONTACT. ENSURE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION. EVACUATE THE

DANGER AREA, OBSERVE EMERGENCY PROCEDURES,

CONSULT AN EXPERT.

FOR PERSONAL PROTECTION SEE SECTION 8.

DO NOT LET PRODUCT ENTER DRAINS. RISK OF **ENVIRONMENTAL** 

**PRECAUTIONS** EXPLOSION.

COVER DRAINS. COLLECT, BIND, AND PUMP OFF SPILLS. METHODS AND

MATERIALS FOR OBSERVE POSSIBLE MATERIAL RESTRICTIONS (SEE CONTAINMENT AND CLEANING UP

SECTIONS 7 AND 10). DISPOSE OF PROPERLY. CLEAN UP

AFFECTED AREA.

REFERENCE TO OTHER

**SECTIONS** 

FOR DISPOSAL SEE SECTION 13.

## SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION.TAKE PRECAUTIONARY MEASURES

AGAINST STATIC DISCHARGE.

IMMEDIATELY CHANGE CONTAMINATED CLOTHING.

APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND

FACE AFTER WORKING WITH SUBSTANCE.

FOR PRECAUTIONS SEE SECTION 2.2.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-

VENTILATED PLACE. KEEP AWAY FROM HEAT AND

SOURCES OF IGNITION.

STORAGE CLASS (TRGS 510): 3: FLAMMABLE LIQUIDS.

Store at RT

**SPECIFIC END USE(S)** 

APART FROM THE USES MENTIONED IN SECTION 1.2 NO

OTHER SPECIFIC USES ARE STIPULATED.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **CONTROL PARAMETERS**

#### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL	BASIS
			PARAMETERS	
Acetic acid, glacial	64-19-7	TWA	10 PPM	USA. ACGIH THRESHOLD
				LIMIT VALUES (TLV)
		STEL	15 PPM	USA. ACGIH THRESHOLD
				LIMIT VALUES (TLV)
		TWA	10 PPM	USA. NIOSH RECOMMENDED
			25 MG/M3	EXPOSURE LIMITS
		ST	15 PPM	USA. NIOSH RECOMMENDED
			37 MG/M3	EXPOSURE LIMITS
		TWA	10 PPM	USA. OCCUPATIONAL
			25 MG/M3	EXPOSURE LIMITS (OSHA) -
				TABLE Z-1 LIMITS FOR AIR
				CONTAMINANTS

PEL	10 PPM	CALIFORNIA PERMISSIBLE
	25 MG/M3	EXPOSURE LIMITS FOR
		CHEMICAL CONTAMINANTS
C	40 PPM	CALIFORNIA PERMISSIBLE
		EXPOSURE LIMITS FOR
		CHEMICAL CONTAMINANTS
STEL	15 PPM	CALIFORNIA PERMISSIBLE
	37 MG/M3	EXPOSURE LIMITS FOR
		CHEMICAL CONTAMINANTS

#### **EXPOSURE CONTROLS**

APPROPRIATE ENGINEERING CONTROLS

IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE AFTER WORKING WITH SUBSTANCE.

#### PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION USE EQUIPMENT FOR EYE PROTECTION TESTED AND

APPROVED UNDER APPROPRIATE GOVERNMENT

STANDARDS SUCH AS NIOSH (US) OR EN 166(EU). TIGHTLY

FITTING SAFETY GOGGLES

SKIN PROTECTION HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED

PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER SURFACE) TO AVOID

SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY

PRACTICES. WASH AND DRY HANDS.

BODY PROTECTION FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.

RESPIRATORY PROTECTION REQUIRED WHEN VAPOURS/AEROSOLS ARE GENERATED.

OUR RECOMMENDATIONS ON FILTERING RESPIRATORY PROTECTION ARE BASED ON THE FOLLOWING STANDARDS:

DIN EN 143, DIN 14387 AND OTHER ACCOMPANYING STANDARDS RELATING TO THE USED RESPIRATORY

PROTECTION SYSTEM.

CONTROL OF ENVIRONMENTAL

**EXPOSURE** 

DO NOT LET PRODUCT ENTER DRAINS. RISK OF EXPLOSION.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear colorless liquid

ODOUR STINGING ODOUR THRESHOLD 0.2 PPM

PH 2.5 AT 50 G/L AT 20 C

MELTING 14 - 18 °C

POINT/FREEZING POINT

INITIAL BOILING POINT 117 - 118 °C

AND BOILING RANGE

FLASH POINT 40 °C

EVAPOURATION RATE NO DATA AVAILABLE FLAMMABILITY (SOLID, NO DATA AVAILABLE

GAS)

UPPER/LOWER UPPER EXPLOSION LIMIT: 19.9 %(V) FLAMMABILITY OR LOWER EXPLOSION LIMIT: 4 %(V)

EXPLOSIVE LIMITS

VAPOUR PRESSURE 20.79 HPA AT 25 C

VAPOUR DENSITY 2.07

RELATIVE DENSITY 1.049 g/mL at 25 °C

WATER SOLUBILITY
602.9 G/L AT 25 C AT 1,013 HPA - COMPLETELY SOLUBLE
PARTITION COEFFICIENT: LOG POW: -0.17 AT 25 C - BIOACCUMULATION IS NOT

N- OCTANOL/WATER EXPECTED. (ECHA)

AUTO-IGNITION 463 C

**TEMPERATURE** 

DECOMPOSITION DISTILLABLE IN AN UNDECOMPOSED STATE AT NORMAL

TEMPERATURE PRESSURE.

VISCOSITY 1.17 MM2/S AT 20 C EXPLOSIVE PROPERTIES NO DATA AVAILABLE OXIDIZING PROPERTIES NO DATA AVAILABLE

OTHER SAFETY INFORMATION

SURFACE TENSION 28.8 MN/M AT 10.0 C

RELATIVE VAPOR 2.07

**DENSITY** 

#### SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY** VAPOR/AIR-MIXTURES ARE EXPLOSIVE AT INTENSE

WARMING.

CHEMICAL STABILITY THE PRODUCT IS CHEMICALLY STABLE UNDER STANDARD

AMBIENT CONDITIONS.

**POSSIBILITY OF** RISK OF EXPLOSION WITH:

HAZARDOUS REACTIONS PEROXI COMPOUNDS

PERCHLORIC ACID

FUMING SULFURIC ACID PHOSPHORUS HALIDES HYDROGEN PEROXIDE CHROMIUM(VI) OXIDE

POTASSIUM PERMANGANATE

**PEROXIDES** 

STRONG OXIDIZING AGENTS

RISK OF IGNITION OR FORMATION OF INFLAMMABLE

GASES OR VAPOURS WITH:

**IRON ZINC** 

MAGNESIUM MILD STEEL

POSSIBLE FORMATION OF:

**HYDROGEN** 

VIOLENT REACTIONS POSSIBLE WITH:

STRONG ALKALIS

ALDEHYDES

ALKALI HYDROXIDES NONMETALLIC HALIDES

ETHANOLAMINE ACETALDEHYDE

ALCOHOLS

HALOGEN-HALOGEN COMPOUNDS

CHLOROSULFONIC ACID CHROMOSULFURIC ACID POTASSIUM HYDROXIDE

NITRIC ACID

**CONDITIONS TO AVOID** HEATING.

**INCOMPATIBLE MATERIALS** 

VARIOUS METALS

**HAZARDOUS DECOMPOSITION** 

**PRODUCTS** 

IN THE EVENT OF FIRE: SEE SECTION 5

**SECTION 11.** TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY LD50 ORAL - RAT - 3,310 MG/KG

REMARKS: (RTECS)

LC50 INHALATION - MOUSE - 4 H - 2,819 MG/L - VAPOR

REMARKS: (RTECS)

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN - RABBIT

CORROSION/IRRITATION RESULT: CAUSES BURNS. - 4 H

(OECD TEST GUIDELINE 404)

REMARKS: (IUCLID)

**SERIOUS EYE** EYES - RABBIT

**DAMAGE/EYE IRRITATION** RESULT: CAUSES BURNS. - 4 H

(OECD TEST GUIDELINE 405)

REMARKS: (IUCLID)

REMARKS: CAUSES SERIOUS EYE DAMAGE.

RESPIRATORY OR SKIN

**SENSITISATION** 

NO DATA AVAILABLE

**GERM CELL** TEST TYPE: AMES TEST

MUTAGENICITY TEST SYSTEM: SALMONELLA TYPHIMURIUM

METABOLIC ACTIVATION: WITH AND WITHOUT

METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 471

RESULT: NEGATIVE

TEST TYPE: MUTAGENICITY (MAMMAL CELL TEST):

CHROMOSOME ABERRATION.

TEST SYSTEM: CHINESE HAMSTER OVARY CELLS METABOLIC ACTIVATION: WITH AND WITHOUT

METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 473

RESULT: NEGATIVE

TEST TYPE: MICRONUCLEUS TEST

SPECIES: RAT

**CELL TYPE: BONE MARROW** 

APPLICATION ROUTE: INHALATION (VAPOR)
METHOD: MUTAGENICITY (MICRONUCLEUS TEST)

**RESULT: NEGATIVE** 

CARCINOGENICITY

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS

PROBABLE, POSSIBLE OR CONFIRMED HUMAN

CARCINOGEN BY IARC.

NTP: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A

KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

OSHA:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EOUAL TO 0.1% IS ON OSHA S LIST OF

REGULATED CARCINOGENS.

REPRODUCTIVE TOXICITY NO DATA AVAILABLE

**SPECIFIC TARGET ORGAN** TOXICITY - SINGLE **EXPOSURE** 

NO DATA AVAILABLE

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE** 

NO DATA AVAILABLE

ASPIRATION HAZARD

NO DATA AVAILABLE

ADDITIONAL INFORMATION MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES, AND SKIN., SPASM, INFLAMMATION AND EDEMA OF THE LARYNX, SPASM, INFLAMMATION AND EDEMA OF THE BRONCHI, PNEUMONITIS, PULMONARY EDEMA, BURNING SENSATION, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING, INGESTION OR INHALATION OF CONCENTRATED ACETIC ACID CAUSES DAMAGE TO TISSUES OF THE RESPIRATORY AND DIGESTIVE TRACTS. SYMPTOMS INCLUDE: HEMATEMESIS, BLOODY DIARRHEA, EDEMA AND/OR

PERFORATION OF THE ESOPHAGUS AND PYLORUS, PANCREATITIS, HEMATURIA, ANURIA, UREMIA, ALBUMINURIA, HEMOLYSIS, CONVULSIONS, BRONCHITIS,

PULMONARY EDEMA, PNEUMONIA,

CARDIOVASCULAR COLLAPSE, SHOCK, AND DEATH.

DIRECT CONTACT OR EXPOSURE TO HIGH

CONCENTRATIONS OF VAPOR WITH SKIN OR EYES CAN CAUSE: ERYTHEMA, BLISTERS, TISSUE DESTRUCTION

WITH SLOW HEALING, SKIN BLACKENING,

HYPERKERATOSIS, FISSURES, CORNEAL EROSION, OPACIFICATION, IRITIS, CONJUNCTIVITIS, AND POSSIBLE

BLINDNESS.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE

## SECTION 12. ECOLOGICAL INFORMATION

**TOXICITY** 

TOXICITY TO FISH SEMI-STATIC TEST LC50 - ONCORHYNCHUS MYKISS

 $(RAINBOW\ TROUT) -> 1,000\ MG/L - 96\ H$ 

(OECD TEST GUIDELINE 203)

TOXICITY TO DAPHNIA AND

OTHER AQUATIC

STATIC TEST EC50 - DAPHNIA MAGNA (WATER FLEA) ->

1,000 MG/L - 48 H

INVERTEBRATES (OECD TEST GUIDELINE 202)

TOXICITY TO ALGAE STATIC TEST EC50 - SKELETONEMA COSTATUM - > 1,000

MG/L - 72 H

(ISO 10253)

TOXICITY TO BACTERIA EC5 - PSEUDOMONAS PUTIDA - 2,850 MG/L - 16 H

REMARKS: NEUTRAL

(MAXIMUM PERMISSIBLE TOXIC CONCENTRATION)

(LIT.)

MICROTOX TEST EC50 - PHOTOBACTERIUM

PHOSPHOREUM - 11 MG/L 15 MIN

REMARKS: (IUCLID)

PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY RESULT: 99 % - READILY BIODEGRADABLE.

(OECD TEST GUIDELINE 301D)

REMARKS: (HSDB)

RESULT: 95 % - READILY ELIMINATED FROM WATER

(OECD TEST GUIDELINE 302B)

BIOCHEMICAL OXYGEN

DEMAND (BOD)

880 MG/G

REMARKS: (LIT.)

RATIO BOD/THBOD 76 %

REMARKS: (IUCLID)

**BIOACCUMULATIVE** 

**POTENTIAL** 

NO DATA AVAILABLE

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND VPVB

ASSESSMENT

PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED.

**OTHER ADVERSE EFFECTS** BIOLOGICAL EFFECTS:

HARMFUL EFFECT DUE TO PH SHIFT.

CAUSTIC EVEN IN DILUTED FORM.

DISCHARGE INTO THE ENVIRONMENT MUST BE

AVOIDED.

## SECTION 13. DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

**PRODUCT** WASTE MATERIAL MUST BE DISPOSED OF IN

ACCORDANCE WITH THE NATIONAL AND LOCAL REGULATIONS. LEAVE CHEMICALS IN ORIGINAL CONTAINERS. NO MIXING WITH OTHER WASTE.

CONTAMINATED PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

## **SECTION 14.** TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: ACETIC ACID, GLACIAL

UN NUMBER: 2789 CLASS: 8 (3) PACKING GROUP: II

REPORTABLE QUANTITY 5000 LBS

(RQ):

POISON INHALATION NO

HAZARD:

**IMDG** 

PROPER SHIPPING NAME: ACETIC ACID, GLACIAL

UN NUMBER: 2789
CLASS: 8 (3)
PACKING GROUP: II
EMS-NO: F-E, S-C

**IATA** 

PROPER SHIPPING NAME: ACETIC ACID, GLACIAL

UN NUMBER: 2789 CLASS: 8 (3) PACKING GROUP: II

#### SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS

WITH A SECTION 302 EHS TPQ.

SARA 313 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL

COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED

THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Acetic acid, glacial 64-19-7 04-24-1993

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Acetic acid, glacial 64-19-7 04-24-1993

#### SECTION 16. OTHER INFORMATION

#### FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

H226 FLAMMABLE LIQUID AND VAPOUR.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MSDS LEGEND

MW: MOLECULAR WEIGHT MF: MOLECULAR FORMULA

VOC: VOLATILE ORGANIC COMPOUNDS

ACGIH: AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL

**HYGINISTS** 

CAS: CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV: THRESHOLD LIMIT VALUE (ACGIH)

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