

Product ID:STERIS 20 STERILANT CONCENTRATE

MSDS Date:02/07/1997

FSC:6850

NIIN:01-380-7658 Status Code:A

MSDS Number: CKPPQ
=== Responsible Party ===
Company Name:STERIS CORP
Address:5960 HEISLEY RD

City:MENTOR State:OH

ZIP:44060-1834

Country:US

Info Phone Num:216-354-2600 /800-548-4873

Emergency Phone Num:216-354-2600

Preparer's Name: DAWN COLE

CAGE:0NWN1

=== C

ontractor Identification ===

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======= Composition/Information on Ingredients ========

Ingred Name:PEROXYACETIC ACID

CAS:79-21-0

RTECS #:SD8750000

= Wt:35.5

Ingred Name: ACETIC ACID

CAS:64-19-7

RTECS #:AF1225000

= Wt:40.

OSHA PEL:25 MG/M3;10 PPM ACGIH TLV:25 MG/M3;10 PPM ACGIH STEL:37 MG/M3;15 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

ngred Name: HYDROGEN PEROXIDE CAS:7722-84-1 RTECS #:MX0899000 = Wt:6.5OSHA PEL:1.4 MG/M3;1 PPM ACGIH TLV:1.4 MG/M3;1 PPM

========= Hazards Identification ==========

LD50 LC50 Mixture: ORAL LD50(RAT): 600 MG/KG

Routes of Entry: Inhalation: UNKNOWN Skin: YES Ingestion: YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: TARGET ORGANS: EYES, SKIN, LUNGS.

ACUTE EFFECTS: INHALATION-VAPOR/MIST WILL IRRITATE NOSE, THROAT, &

LUNGS, B

UT WILL USUALLY SUBSIDE WHEN EXPOSURE CEASES.

EYE-CORROSIVE; CONTACT MAY CAUSE IRREVERSIBLE EYE DAMAGE, INCLUDING BLINDNESS. SKIN-CORROSIVE; MAY CAUSE SEVERE BURNS. ABSORPTION IS MODERATELY HAZARDOUS. INGESTION-MODERATELY TOXIC. CHRONIC EFFECTS: ACID MAY INCREASE INCIDENCE OF SKIN TUMORS WH EN ADMINISTERED SIMULTANEOUSLY WITH KNOWN CARCINOGEN TO MICE.

Explanation of Carcinogenicity: IARC, NTP, AND OSHA DO NOT LIST PEROXYACETIC ACID AS A CARCINOGEN.

Effects of Overexposure

:INHALATION: COUGHING AND BREATHING DIFFICULTY MAY ALSO OCCUR. EYE: BLINDNESS. SKIN: SEVERE BURNS.

------ First Aid Measures ------

First Aid:INHALATION: MOVE SUBJECT FRESH AIR, IF NEEDED, APPLY ARTIFICIAL RESPIRATION AND OXYGEN. EYE CONTACT: WASH OPENED EYE IMMEDIATELY WITH WATER FOR 15 MINUTES. CALL OPTHALMOLOGIST. SKIN CONTACT: WASH IMME DIATELY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. RINSE

MOUTH WITH

WATER. DRINK A LARGE QUANTITY OF EGG WHITES, GELATIN SOLUTION, OR IF NOT AVAILABLE, LARGE QUANTITIES OF WATER. AFTER FIRST AID, GET APPROPRIATE MEDICAL SUPPORT.

=========== Fire Fighting Measures ==========================

Flash Point Method:OC Flash Point:=46.1C, 115.F

Autoignition Temp:=218.C, 424.4F

Extinguishing Media: USE WATER ONLY.

Fire Fighting Procedures: DON'T ENTER ENCLOSED/CONFINED BURNING SPACE THAT MAY CONTAIN PEROXYACETIC ACID WITHOUT PROPER PR

OTECTIVE

EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL. FIGHT FIRE FROM PROTECTED LOCATION OR MAXIMUM DISTANCE.

Unusual Fire/Explosion Hazard:STABLIZEWD PEROXYACETIC ACID DECOMPOSES UNDER FIRE CONDITIONS TO RELEASE OXYGEN THAT MAY INTENSIFY THE FIRE.

======== Accidental Release Measures ============

Spill Release Procedures:(1) INCREASE VENTILATION (2) SHUT OFF

IGINITION SOURCES (3) PUT ON PROTECTIVE GOGGLES, APRON, & OTHER IMPERVIOUS CLOTHING. USE SELF-CONTAINED BREATHING APPARATUS (SCBA) APPROVED BY NIOSH/OSHA (4) APPR OACH RELEASE FROM UPWIND. FLUSH SPILLED MATERIALS WITH LARGE QUANTITIES OF WATER OR UNTIL ALL MATERIAL IS DISSOLVED BY 20 VOLUMES (5) REMOVE UNOPENED CONTAINER TO SINK OF WATER & SUBMERGE & DILUTE.

Neutralizing Agent:DILUTE WITH 20 PARTS OF WATER PER ONE PART PEROXYACETIC ACID.

Handling and Storage Precautions:DO NOT REMOVE CONTAINER FROM CARBON UNTIL TIME OF USE. AVOID PHYSICAL DAMAGE TO STERIS 20 STERILANT CONCENTRATE CONTAINERS. STORE IN A COOL, DRY AREA (>86F). STORE IN AN UPRIGHT POSITION. AVOID HEAT, MOISTURE, SUNLIGHT, OR CONTAMINATING SUBSTANCES. PROVIDE MECHANICAL LOCAL EXHAUST VENTILATION.

Other Precautions:LARGE SPILL: FOR LARGE SPILLS, DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL. DO NO

T RELEASE UNDILUTED MATERIAL

INTO SEWERS OR WATERWAYS. CLEANUP: DILUTE WITH 20 PARTS OF WATER PER ONE PART PEROXY ACETIC ACID.

===== Exposure Controls/Personal Protection ========

Respiratory Protection:FOLLOW ASHA RESPIRAATOR REFULATIONS (29 CFR 1910.134) AND WEAR A MSHA/NIOSH-APPROVED RESPIRATOR BASED ON ITS SUITABILITY TO PROVIDE ADEQUATE WORKER PROTECTION FOR GIVEN WORKING CONDITIONS, LEVEL OF AI RBORNE CONTAMINATION, AND PRESSURE OF SUFFICIENT OXYGEN

- . FOR EMERGENCY OR NON-ROUTINE OPERATIONS WEAR A SCBA.
- Ventilation:PROVIDE GENERAL OR LOCAL EXHAUST VENTILATION SYSTEMS. LOCAL EXHAUST VENTILATION IS PREFERRED BECAUSE IT PREVENTS CONTAMINANT DISPERSION INTO THE WORK AREA.
- Protective Gloves:WEAR CHEMICALLY PROTECTIVE RUBBER OR NEOPRANE GLOVES. Eye Protection:WEAR PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES PER OSHA.
- Other Protective Equipment:BOOTS, APRONS AND GAUNTLETS TO PREVENT PROLONGED SKIN CONTACT. CONTACT LENSES
- ARE NOT EYE PROTECTIVE
 - DEVICES. APPROPIATE EYE PROTECTION MUST BE WORN INSTEAD OF, OR IN CONJUNCTION WITH CONTACT LENSES.
- Work Hygienic Practices: NEVER EAT, DRINK, OR SMOKE IN WORK AREAS.
 PRACTICE GOOD PERSONAL HYGIENE AFTER EXPOSURE TO THIS MATERIAL,
 ESPECIALLY BEFORE EATING, DRINKING, SMOKING, USING THE TOLIET, OR
 APPLYING COSMETICS.

Supplemental Safety and Health

WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN DEFICIENT ATMOSPHERES. SAFETY STATIONS:

MAKE EMERGENCY EYEWASH

STATIONS, SAFETY QUICK-DRENCH SHOWERS, & WASHING FACILITIES AVAIALBLE IN WORK AREA. SEPARATE CONTAMINATED WORK CLOTHES FROM STREET CLOTHES. LAUNDER BEFORE RESUE.

======== Physical/Chemical Properties ==========

HCC:P1

Boiling Pt:=107.2C, 225.F Melt/Freeze Pt:=-44.C, -47.2F

Vapor Pres:20 MM HG AT 77 F (25C)

Spec Gravity:1.13 pH:LESS THAN 1

Evaporation Rate & Deference: ABOVE 1

Solubility in Water:100%

Appearance and Odor:LIQUID: COLORL

ESS LIQUID, SHARP, PUNGENT,

VINEGAR-LIKE ODOR.

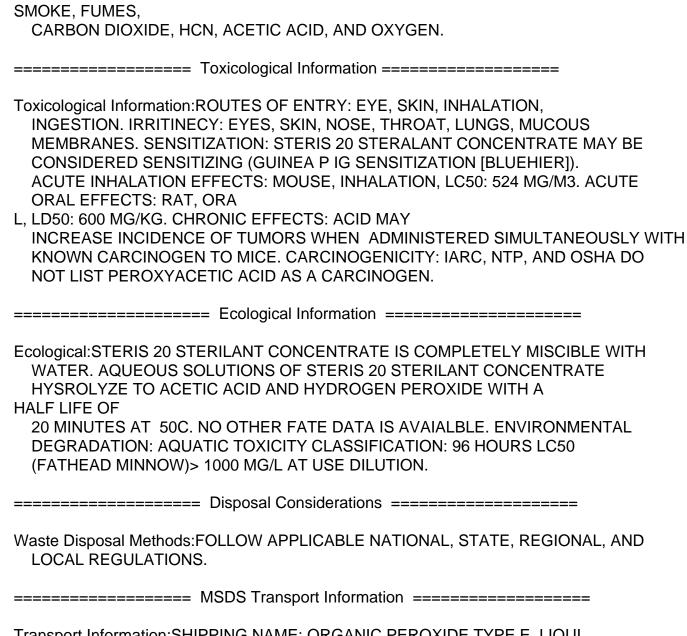
======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

ORGANICS INCLUDING PRIMARY ALCOHOLS, HEAVY METALS, REDUCING AND OXIDIZING AGENTS.

Stability Condition to Avoid:OPEN FLAMES, LIGHT, ELEVATED TEMPERATURES SUCH AS PAPER AND WOOD, MOISTURE, AND CONTAMINATION.

Hazardous Decomposition Products:THERMAL OXIDATIVE DECOMPOSITION OF STERIS 20 STERILANT CONCENTRATE CAN PRODUCE ACID



Transport Information:SHIPPING NAME: ORGANIC PEROXIDE TYPE E, LIQUI D

(35% PEROXYACETIC ACID, STABILIZED). HAZARD CLASS: 5.2 SUBSIDIARY: 8. ID NUMBER: UN 3107. PACKING GROUP: PGII. LABEL: 5.2 ORGANIC PEROXIDE (SUBRISK[8] CO RROSIVE). SPECIAL PROVISIONS: NONE. PACKAGING AUTHORIZATIONS: A) EXCEPTIONS: 49 CFR 173.152. B) NON-BULK PACKING: 49 CFR 173.152. C) BULK PACKING: NONE. QUANTITY LIMITATIONS (QUANTITY PER ONE CONTAINE R): A) PASSANGER, AIRCRAFT OR RAILCAR: 5 LITERS. B) CARGO AIRCRAFT: 10 LITERS. C) BULK PACKING: NONE. SHIPPING

SYMBOLS: PLACARDING: ORAGNIC PEROXIDE 5.2, CORROSIVE.
=========== Regulatory Information ============
SARA Title III Information:SARA 311/312 CODES: PEROXYACETIC ACID: ACUTE HAZARD-YES. CHRONIC HAZARD-NO. FIRE HAZARD-YES. REACTIVITY HAZARD-YES. SUDDEN RELEASE HAZARD-YES. SARA 313 TOXIC CHEMICALS: PEROXYACETIC ACID, CAS #79-21-0 . SARA 302 EHS: PEROXYACETIC ACID: 500 LB/1100 KG THRESHOLD PLANNING QUANTITY (TPQ). SARA 304: REPORTABLE QUANTITY=500 LB. Federal Regulatory Information:EPA REGULATIONS: RCRA HAZARDOUS WASTE NUMBER: PEROXYACETIC ACID: D001, D002. CERCLA SECTION 103
HAZARDOUS SU BSTANCE: UNLISTED SUBSTANCE, REPORTABLE QUANTITY=100 LB/220 KG; CAA, SECTION 112(R) THRESH OLD QUANTITY=10,000 LB. NOT LISTED SPECIFIC PER RCRA, SECTION 3001; CWA, SECTION 311(B)(4); CWA, SECTION 307(A). OSHA REGULATIONS: AIR CONTAMINANTS: NOT LISTED. OSHA SPECIFICALLY REGULATED SUBSTANCE, PROCESS SAFETY: PEROXYACETIC ACID: 1000
LF/2200 KG THRESHOLD QUANTITY. State Regulatory Information:SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT OF 1986 REQUIRES THAT THE GOVERNMENT OF CALIFORNIA DEVELOP A LIST OF CARCINOGENS (A) AND REPRODUCTIVE TOXINS (B). NO PERSON DOING BUSINESS SHALL KNOWNLY EXP OSE ANY INDIVIDUAL TO A CHEMICAL ON THIS LIST WITHOUT FIRST GIVING CLEAR & REASONABLE WARNING. 35% PEROXYACETIC ACID CONTAINS LESS THAN 1 PPM ARSENIC(A); LESS THAN 0.5 PPM CHROMIUM (A); AND LESS THAN 1 PPM LEAD (B
). Other Information
=============== Other Information ======================

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