Chem-Impex International Inc.

Tel: (630) 766-2112 E-mail: <u>sales@chemimpex.com</u> Shipping and Correspondence: 935 Dillon Drive Wood Dale, IL 60191 USA Fax: (630) 766-2218 Web site: <u>www.chemimpex.com</u> Manufacturing site: 825 Dillon Drive Wood Dale, IL 60191 USA

SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	24580
NAME:	Hydroxylamine sulfate
SYNONYMS:	Hydroxylammonium sulfate
24 HOUR EMERGENCY TELEPHONE:	(800) 535-5053(USA) 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) CORROSIVE TO METALS (CATEGORY 1), H290 ACUTE TOXICITY, ORAL (CATEGORY 4), H302 ACUTE TOXICITY, DERMAL (CATEGORY 4), H312 SKIN IRRITATION (CATEGORY 2), H315 EYE IRRITATION (CATEGORY 2A), H319 SKIN SENSITISATION (CATEGORY 1), H317 CARCINOGENICITY (CATEGORY 2), H351 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE, ORAL (CATEGORY 2), H373 ACUTE AQUATIC TOXICITY (CATEGORY 1), H400 CHRONIC AQUATIC TOXICITY (CATEGORY 3), H412

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

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS PICTOGRAM



SIGNAL WORD

HAZARD STATEMENT(S	5)
H290	MAY BE CORROSIVE TO METALS.
H302 + H312	HARMFUL IF SWALLOWED OR IN CONTACT WITH SKIN
H315	CAUSES SKIN IRRITATION.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H319	CAUSES SERIOUS EYE IRRITATION.
H351	SUSPECTED OF CAUSING CANCER.
H373	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED
	OR REPEATED EXPOSURE IF SWALLOWED.
H400	VERY TOXIC TO AQUATIC LIFE.
H412	HARMFUL TO AQUATIC LIFE WITH LONG LASTING
	EFFECTS.
PRECAUTIONARY STAT	TEMENT(S)
P201	OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
P202	DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE
	BEEN READ AND UNDERSTOOD.
P234	KEEP ONLY IN ORIGINAL CONTAINER.
P260	DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/
	SPRAY.
P264	WASH SKIN THOROUGHLY AFTER HANDLING.
P270	DO NOT EAT, DRINK OR SMOKE WHEN USING THIS
	PRODUCT.
P272	CONTAMINATED WORK CLOTHING SHOULD NOT BE
	ALLOWED OUT OF THE WORKPLACE.
P273	AVOID RELEASE TO THE ENVIRONMENT.
P280	WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE
	PROTECTION.
P301 + P312	IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/
	PHYSICIAN IF YOU FEEL UNWELL.
P302 + P352	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
P305 + P351 + P338	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
	MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND
	EASY TO DO. CONTINUE RINSING.
P308 + P313	IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/
	ATTENTION.
P322	SPECIFIC MEASURES (SEE SUPPLEMENTAL FIRST AID
	INSTRUCTIONS ON THIS LABEL).
P330	RINSE MOUTH.

P333 + P313	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION.
P337 + P313	IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/
1557 1515	ATTENTION.
P362	TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE
	REUSE.
P390	ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE.
P391	COLLECT SPILLAGE.
P405	STORE LOCKED UP.
P406	STORE IN CORROSIVE RESISTANT STAINLESS STEEL
	CONTAINER WITH A RESISTANT INNER LINER.
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

MW: 164.14

CAS-NO. 10039-54-0

PURITY: $\geq 99\%$

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
BIS(HYDROXYLAMM	ONIUM) SULPHATE	
	MET. CORR. 1; ACUTE TOX. 4;	90 - 100 %
	SKIN IRRIT. 2; EYE IRRIT. 2A;	
	SKIN SENS. 1; CARC. 2; STOT	
	RE 2; AQUATIC ACUTE 1;	
	AQUATIC CHRONIC 3; H290,	
	H302 + H312, H315, H317, H319,	
	H351, H373, H400, H412	

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	CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF DANGEROUS AREA.
IF INHALED	IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.
IN CASE OF SKIN CONTACT	WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.
IN CASE OF EYE CONTACT	RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.
IF SWALLOWED	NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY
EXTINGUISHING MEDIA	CHEMICAL OR CARBON DIOXIDE.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	NO DATA AVAILABLE
ADVICE FOR	WEAR SELF CONTAINED BREATHING APPARATUS FOR
FIREFIGHTERS	FIRE FIGHTING IF NECESSARY.
FURTHER INFORMATION	NO DATA AVAILABLE

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	WEAR RESPIRATORY PROTECTION. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST. FOR PERSONAL PROTECTION SEE SECTION 8.
ENVIRONMENTAL PRECAUTIONS	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.
REFERENCE TO OTHER SECTIONS	FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.FURTHER PROCESSING OF SOLID MATERIALS MAY RESULT IN THE FORMATION OF COMBUSTIBLE DUSTS. THE POTENTIAL FOR COMBUSTIBLE DUST FORMATION SHOULD BE TAKEN INTO CONSIDERATION BEFORE ADDITIONAL PROCESSING OCCURS. PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.
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 WITHCONTAINS NO SUBSTANCES WITH OCCUPATIONALWORKPLACE CONTROLEXPOSURE LIMIT VALUES.PARAMETERSCONTAINS NO SUBSTANCES WITH OCCUPATIONAL

EXPOSURE CONTROLS

APPROPRIATE	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL
ENGINEERING	HYGIENE AND SAFETY PRACTICE. WASH HANDS
CONTROLS	BEFORE BREAKS AND AT THE END OF WORKDAY.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

SKIN PROTECTIONHANDLE 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.

FULL CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

SPLASH CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

BODY PROTECTIONCOMPLETE SUIT PROTECTING AGAINST CHEMICALS,
THE TYPE OF PROTECTIVE EQUIPMENT MUST BE
SELECTED ACCORDING TO THE CONCENTRATION AND
AMOUNT OF THE DANGEROUS SUBSTANCE AT THE
SPECIFIC WORKPLACE.

RESPIRATORY	WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING
PROTECTION	RESPIRATORS ARE APPROPRIATE USE A FULL-FACE
	PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN
	143) RESPIRATOR CARTRIDGES AS A BACKUP TO
	ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE
	SOLE MEANS OF PROTECTION, USE A FULL-FACE
	SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND
	COMPONENTS TESTED AND APPROVED UNDER
	APPROPRIATE GOVERNMENT STANDARDS SUCH AS
	NIOSH (US) OR CEN (EU).
CONTROL OF	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO
ENVIRONMENTAL	DO SO. DO NOT LET PRODUCT ENTER DRAINS.
EXPOSURE	DISCHARGE INTO THE ENVIRONMENT MUST BE
	AVOIDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

·

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE	White to light yellow crystalline chunks	
ODOUR	NO DATA AVAILABLE	
ODOUR THRESHOLD	NO DATA AVAILABLE	
PH	NO DATA AVAILABLE	
MELTING	170 °C (Lit.)	
POINT/FREEZING POINT	170 C (Ell.)	
INITIAL BOILING POINT		
AND BOILING RANGE		
FLASH POINT		
EVAPORATION RATE	NO DATA AVAILABLE	
FLAMMABILITY (SOLID,	THE PRODUCT IS NOT FLAMMABLE.	
GAS)	THE PRODUCT IS NOT FLAMMABLE.	
UPPER/LOWER	NO DATA AVAILABLE	
FLAMMABILITY OR	NO DATA AVAILADLE	
EXPLOSIVE LIMITS		
VAPOUR PRESSURE	NO DATA AVAILABLE	
VAPOUR DENSITY	NO DATA AVAILABLE	
RELATIVE DENSITY		
WATER SOLUBILITY	587 G/L AT 20 C - SOLUBLE	
PARTITION COEFFICIENT:	LOG POW: -3.6 AT 25 C	
N- OCTANOL/WATER		
AUTO-IGNITION	NO DATA AVAILABLE	
TEMPERATURE		
DECOMPOSITION	NO DATA AVAILABLE	
TEMPERATURE		
VISCOSITY	NO DATA AVAILABLE	
EXPLOSIVE PROPERTIES	NOT EXPLOSIVE	
OXIDIZING PROPERTIES	THE PRODUCT HAS BEEN SHOWN NOT TO BE	
	OXIDISING IN A TEST FOLLOWING DIRECTIVE	
	67/548/EEC (METHOD A17, OXIDISING PROPERTIES).	
	6//548/EEC (METHOD AT/, OXIDISING PROPERTIES).	

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	NO DATA AVAILABLE
CHEMICAL STABILITY	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DATA AVAILABLE
CONDITIONS TO AVOID	NO DATA AVAILABLE
INCOMPATIBLE MATERIALS	OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS NITROGEN OXIDES (NOX), SULPHUR OXIDES OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	LD50 ORAL - RAT - MALE AND FEMALE - 642 MG/KG (OECD TEST GUIDELINE 401) INHALATION: NO DATA AVAILABLE LD50 DERMAL - RABBIT - MALE AND FEMALE - > 1,500 - < 2,000 MG/KG (OECD TEST GUIDELINE 402)
SKIN CORROSION/IRRITATION	SKIN - RABBIT RESULT: IRRITATING TO SKIN. (OECD TEST GUIDELINE 404)

SERIOUS EYE	EYES - RABBIT
DAMAGE/EYE IRRITATION	RESULT: NO EYE IRRITATION - 24 H
	(OECD TEST GUIDELINE 405)

RESPIRATORY OR SKIN SENSITISATION	MAXIMISATION TEST - GUINEA PIG RESULT: MAY CAUSE SENSITISATION BY SKIN CONTACT. (OECD TEST GUIDELINE 406)
GERM CELL MUTAGENICITY	MOUSE - MALE RESULT: NEGATIVE
CARCINOGENICITY	CARCINOGENICITY - RAT - MALE AND FEMALE - ORAL ENDOCRINE:ADRENAL CORTEX HYPERPLASIA.
IARC:	SUSPECTED HUMAN CARCINOGENS 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.
ACGIH:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.
NTP:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED
OSHA:	CARCINOGEN BY NTP. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.
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	RTECS: NC5425000 MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER DESDIDATION TRACT EVES. AND SKIDL COUCH

OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES, AND SKIN., COUGH, SHORTNESS OF BREATH, HEADACHE, NAUSEA STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY	
TOXICITY TO FISH	MORTALITY LC50 - PIMEPHALES PROMELAS
	(FATHEAD MINNOW) - 7.2 MG/L - 96 H
TOXICITY TO DAPHNIA AND	STATIC TEST EC50 - DAPHNIA MAGNA (WATER FLEA)
OTHER AQUATIC	- 1.62 MG/L - 48 H
INVERTEBRATES	(DIRECTIVE 67/548/EEC, ANNEX V, C.2.)
TOXICITY TO ALGAE	STATIC TEST EC50 - DESMODESMUS SUBSPICATUS
	(SCENEDESMUS SUBSPICATUS) - 0.72 MG/L - 72 H
TOXICITY TO BACTERIA	RESPIRATION INHIBITION EC50 - SLUDGE
	TREATMENT - 54 MG/L - 180 MIN
	(OECD TEST GUIDELINE 209)
PERSISTENCE AND	NO DATA AVAILABLE
DEGRADABILITY	
BIOACCUMULATIVE	NO DATA AVAILABLE
POTENTIAL	NO DAIA AVAILABLE
MOBILITY IN SOIL	NO DATA AVAILABLE
RESULTS OF PBT AND	PBT/VPVB ASSESSMENT NOT AVAILABLE AS
VPVB ASSESSMENT	CHEMICAL SAFETY ASSESSMENT NOT
	REQUIRED/NOT CONDUCTED
OTHER ADVERSE EFFECTS	AN ENVIRONMENTAL HAZARD CANNOT BE
	EXCLUDED IN THE EVENT OF UNPROFESSIONAL
	HANDLING OR DISPOSAL. VERY TOXIC TO AQUATIC
	LIFE.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT	OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
CONTAMINATED	DISPOSE OF AS UNUSED PRODUCT.

PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:HYDROXYLAMINE SULFATEUN NUMBER:2865CLASS:8PACKING GROUP:IIIREPORTABLE QUANTITY(RQ):MARINE POLLUTANT:NOPOISON INHALATIONNOHAZARD:IMDG
CLASS: 8 PACKING GROUP: III REPORTABLE QUANTITY (RQ): MARINE POLLUTANT: NO POISON INHALATION NO HAZARD:
PACKING GROUP: III REPORTABLE QUANTITY (RQ): MARINE POLLUTANT: NO POISON INHALATION NO HAZARD:
REPORTABLE QUANTITY (RQ): MARINE POLLUTANT: NO POISON INHALATION NO HAZARD:
(RQ): MARINE POLLUTANT: NO POISON INHALATION NO HAZARD:
MARINE POLLUTANT: NO POISON INHALATION NO HAZARD:
POISON INHALATION NO HAZARD:
HAZARD:
IMDG
IMDG
PROPER SHIPPING NAME: HYDROXYLAMINE SULPHATE
UN NUMBER: 2865
CLASS: 8
PACKING GROUP: III
EMS-NO: F-A, S-B
MARINE POLLUTANT: NO
IATA
PROPER SHIPPING NAME: HYDROXYLAMINE SULPHATE
UN NUMBER: 2865
CLASS: 8
PACKING GROUP: III

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	SARA 302: NO CHEMICALS SUBJECT TO THE REPORTI TITLE III, SECTION 302.	IN THIS MATERIAL ARE NG REQUIREMENTS OF SARA
SARA 313 COMPONENTS	CHEMICAL COMPONENTS THAT EXCEED THE THRES	DOES NOT CONTAIN ANY WITH KNOWN CAS NUMBERS HOLD (DE MINIMIS) BLISHED BY SARA TITLE III,
SARA 311/312 HAZARDS	ACUTE HEALTH HAZARD,	CHRONIC HEALTH HAZARD
MASSACHUSETTS RIGHT TO KNOW COMPONENTS	NO COMPONENTS ARE SU MASSACHUSETTS RIGHT	
PENNSYLVANIA RIGHT TO KNOW COMPONENTS		
	CAS-NO.	REVISION DATE
Hydroxylamine sulfate	10039-54-0	3/1/2007
NEW JERSEY RIGHT TO KNOW COMPONENTS		
	CAS-NO.	REVISION DATE
Hydroxylamine sulfate	10039-54-0	3/1/2007

CALIFORNIA PROP. 65THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALSCOMPONENTSKNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER,
BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE
HARM.

SECTION 16. OTHER INFORMATION

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

ACUTE TOX.	ACUTE TOXICITY
AQUATIC ACUTE	ACUTE AQUATIC TOXICITY
AQUATIC CHRONIC	CHRONIC AQUATIC TOXICITY
CARC.	CARCINOGENICITY
EYE IRRIT.	EYE IRRITATION
H290	MAY BE CORROSIVE TO METALS.
H302	HARMFUL IF SWALLOWED.
H302 + H312	HARMFUL IF SWALLOWED OR IN CONTACT WITH SKIN
H312	HARMFUL IN CONTACT WITH SKIN.
H315	CAUSES SKIN IRRITATION.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H319	CAUSES SERIOUS EYE IRRITATION.
H351	SUSPECTED OF CAUSING CANCER.
H373	MAY CAUSE DAMAGE TO ORGANS THROUGH
	PROLONGED OR REPEATED EXPOSURE IF SWALLOWED.
H400	VERY TOXIC TO AQUATIC LIFE.
HMIS RATING	
HEALTH HAZARD:	2
CHRONIC HEALTH	*
HAZARD:	
FLAMMABILITY:	0
PHYSICAL HAZARD	0
NFPA RATING	
	_

HEALTH HAZARD:	2
FIRE HAZARD:	0
REACTIVITY HAZARD:	0

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)
IMPORTANT:	
THE INFORMATION A	BOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST
INFORMATION CURR	ENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF

MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL **CII** BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF **CII** HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.