# **Chem-Impex International Inc.**

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# SAFETY DATA SHEET

#### SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	38891
NAME:	Silver nitrate
SYNONYMS:	Silver(I) nitrate Nitric acid silver(I) salt
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)** OXIDIZING SOLIDS (CATEGORY 2), H272 CORROSIVE TO METALS (CATEGORY 1), H290 SKIN CORROSION (CATEGORY 1B), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318

#### SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 1), H400 LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 1), H410

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)

H272	MAY INTENSIFY FIRE; OXIDISER.
H290	MAY BE CORROSIVE TO METALS.
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H410	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING
	EFFECTS.

#### **PRECAUTIONARY STATEMENT(S)**

I KECAU HUMAKI SI	AI EMENI(S)
P210	KEEP AWAY FROM HEAT.
P220	KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE
	MATERIALS.
P221	TAKE ANY PRECAUTION TO AVOID MIXING WITH
	COMBUSTIBLES.
P234	KEEP ONLY IN ORIGINAL CONTAINER.
P260	DO NOT BREATHE DUST OR MIST.
P264	WASH SKIN THOROUGHLY AFTER HANDLING.
P273	AVOID RELEASE TO THE ENVIRONMENT.
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 PERSON TO FRESH AIR AND KEEP
	COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A
	POISON CENTER/DOCTOR.
P305 + P351 + P338 +	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR
P310	SEVERAL 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.
P390	ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE.
P391	COLLECT SPILLAGE.
P405	STORE LOCKED UP.
P406	STORE IN CORROSIVE RESISTANT CONTAINER WITH A
	RESISTANT INNER LINER.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
	WASTE DISPOSAL PLANT.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: AgNO<sub>3</sub>

MW: 169.90

CAS-NO. 7761-88-8

PURITY:  $\geq$  99% (Assay by titration)

#### HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Silver nitrate		
	OX. SOL. 2; MET. CORR. 1;	<= 100 %
	SKIN CORR. 1B; EYE DAM. 1;	
	AQUATIC ACUTE 1; AQUATIC	
	CHRONIC 1; H272, H290, H314,	
	H318, H400, H410	
	CONCENTRATION LIMITS: >=	
	1 %: MET. CORR. 1, H290;	
	M-FACTOR - AQUATIC ACUTE:	
	1,000 - AQUATIC CHRONIC: 100	

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 AIDER NEEDS TO PROTECT HIMSELF. SHOW THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.
IF INHALED	AFTER INHALATION: FRESH AIR. CALL IN PHYSICIAN.
IN CASE OF SKIN CONTACT	IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/ SHOWER. CALL A PHYSICIAN IMMEDIATELY.

IN CASE OF EYE CONTACT	AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF 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 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 EXTINGUISHING MEDIA	SUITABLE EXTINGUISHING MEDIA USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.
	UNSUITABLE EXTINGUISHING MEDIA FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF EXTINGUISHING AGENTS ARE GIVEN.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	NITROGEN OXIDES (NOX), SILVER/SILVER OXIDES CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS. NOT COMBUSTIBLE. HAS A FIRE-PROMOTING EFFECT DUE TO RELEASE OF OXYGEN. AMBIENT FIRE MAY LIBERATE HAZARDOUS VAPOURS.
ADVICE FOR FIREFIGHTERS	STAY IN DANGER AREA ONLY WITH SELF-CONTAINED BREATHING APPARATUS. PREVENT SKIN CONTACT BY KEEPING A SAFE DISTANCE OR BY WEARING SUITABLE PROTECTIVE CLOTHING.
FURTHER INFORMATION	SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A WATER SPRAY JET. 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: AVOID INHALATION OF DUSTS. AVOID SUBSTANCE CONTACT. ENSURE ADEQUATE VENTILATION. EVACUATE THE DANGER AREA, OBSERVE EMERGENCY PROCEDURES, CONSULT AN EXPERT. FOR PERSONAL PROTECTION SEE SECTION 8.
ENVIRONMENTAL PRECAUTIONS	DO NOT LET PRODUCT ENTER DRAINS.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	COVER DRAINS. COLLECT, BIND, AND PUMP OFF SPILLS. OBSERVE POSSIBLE MATERIAL RESTRICTIONS (SEE SECTIONS 7 AND 10). TAKE UP DRY. DISPOSE OF PROPERLY. CLEAN UP AFFECTED AREA. AVOID GENERATION OF DUSTS.
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. FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE	DO NOT STORE NEAR COMBUSTIBLE MATERIALS.
STORAGE, INCLUDING ANY INCOMPATIBILITIES	LIGHT SENSITIVE.
	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	

Silver nitrate	7761-88-8	TWA	0.01 MG/M3	USA. OCCUPATIONAL
				EXPOSURE LIMITS (OSHA) -
				TABLE Z-1 LIMITS FOR AIR
				CONTAMINANTS
		TWA	0.01 MG/M3	USA. ACGIH THRESHOLD
				LIMIT VALUES (TLV)
	REMARKS	ARGYRL	Á	
		VARIES		
		TWA	0.01 MG/M3	USA. NIOSH RECOMMENDED
				EXPOSURE LIMITS
		PEL	0.01 MG/M3	CALIFORNIA PERMISSIBLE
				EXPOSURE LIMITS FOR
				CHEMICAL CONTAMINANTS

#### **EXPOSURE CONTROLS**

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

#### PERSONAL PROTECTIVE EQUIPMENT

<b>EYE/FACE PROTECTION</b>	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 PROTECTIONHANDLE WITH GLOVES. GLOVES MUST BE INSPECTED<br/>PRIOR TO USE. USE PROPER GLOVE REMOVAL<br/>TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER<br/>SURFACE) TO AVOID SKIN CONTACT WITH THIS<br/>PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER<br/>USE IN ACCORDANCE WITH APPLICABLE LAWS AND<br/>GOOD LABORATORY PRACTICES. WASH AND DRY<br/>HANDS.
- **BODY PROTECTION** PROTECTIVE CLOTHING

RESPIRATORYREQUIRED WHEN DUSTS ARE GENERATED.PROTECTIONOUR RECOMMENDATIONS ON FILTERING RESPIRATORYPROTECTION ARE BASED ON THE FOLLOWINGSTANDARDS: DIN EN 143, DIN 14387 AND OTHERACCOMPANYING STANDARDS RELATING TO THE USEDRESPIRATORY PROTECTION SYSTEM.

CONTROL OFDO NOT LET PRODUCT ENTER DRAINS.ENVIRONMENTALEXPOSURE

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC	PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE	White crystals
ODOUR	ODOURLESS
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	211 - 213 °C (Approx.)
POINT/FREEZING POINT	
INITIAL BOILING POINT	432 - 434 °C
AND BOILING RANGE	
FLASH POINT	
EVAPORATION RATE	NO DATA AVAILABLE
FLAMMABILITY (SOLID,	NO DATA AVAILABLE
GAS)	
UPPER/LOWER	NO DATA AVAILABLE
FLAMMABILITY OR	
EXPLOSIVE LIMITS	
VAPOUR PRESSURE	NO DATA AVAILABLE
VAPOUR DENSITY	NO DATA AVAILABLE
RELATIVE DENSITY	4.35
WATER SOLUBILITY	NO DATA AVAILABLE
PARTITION COEFFICIENT:	LOG POW: 5
N- OCTANOL/WATER	
AUTO-IGNITION	NO DATA AVAILABLE
TEMPERATURE	
DECOMPOSITION	NO DATA AVAILABLE
TEMPERATURE	
VISCOSITY	NO DATA AVAILABLE
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE
OXIDIZING PROPERTIES	THE SUBSTANCE OR MIXTURE IS CLASSIFIED AS
	OXIDIZING WITH THE CATEGORY 2.
OTHER SAFETY	NO DATA AVAILABLE

OTHER SAFETY INFORMATION

REACTIVITY

NO DATA AVAILABLE

#### SECTION 10. STABILITY AND REACTIVITY

# **CHEMICAL STABILITY** THE PRODUCT IS CHEMICALLY STABLE UNDER STANDARD AMBIENT CONDITIONS (ROOM TEMPERATURE) . DECOMPOSES ON EXPOSURE TO LIGHT.

NO DATA AVAILABLE

POSSIBILITY OFNO DATA AVAILABLEHAZARDOUSREACTIONS

**CONDITIONS TO AVOID** LIGHT.

INCOMPATIBLE MATERIALS	ALUMINIUM, MILD STEEL, METALS
HAZARDOUS	HAZARDOUS DECOMPOSITION PRODUCTS FORMED
DECOMPOSITION	UNDER FIRE CONDITIONS NITROGEN OXIDES (NOX),
PRODUCTS	SILVER/SILVER OXIDES
	OTHER DECOMPOSITION PRODUCTS - NO DATA
	AVAILABLE
	IN THE EVENT OF FIRE: SEE SECTION 5

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

LC50 INHALATION - RAT - MALE AND FEMALE - 4 H - > 0.075 MG/L

LD50 DERMAL - RAT - MALE AND FEMALE - > 2,000 MG/KG

NO DATA AVAILABLE

SKIN	SKIN - RECONSTRUCTED HUMAN EPIDERMIS (RHE)
CORROSION/IRRITATION	RESULT: CORROSIVE - 3 - 60 MIN

SERIOUS EYECAUSES SERIOUS EYE DAMAGE. RISK OFDAMAGE/EYE IRRITATIONPERMANENT DAMAGE DUE TO STAINING OF THE<br/>CORNEA.

**RESPIRATORY OR SKIN** NO DATA AVAILABLE **SENSITISATION** 

GERM CELL	MICRONUCLEUS TEST
MUTAGENICITY	HUMAN LYMPHOCYTES
	RESULT: NEGATIVE
	IN VITRO MAMMALIAN CELL GENE MUTATION TEST
	MOUSE LYMPHOMA CELLS
	<b>RESULT: POSITIVE RESULTS WERE OBTAINED IN</b>
	SOME IN VITRO TESTS.

# 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 EQUAL 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	REPEATED DOSE TOXICITY - RAT - MALE AND FEMALE - ORAL - 52 DAYS - NO OBSERVED ADVERSE EFFECT LEVEL - >= 250 MG/KG	
	RTECS: VW4725000	
	MAY CAUSE ARGYRIA (A SLATE-GRAY OR BLUISH DISCOLORATION OF THE SKIN AND DEEP TISSUES DUE TO THE DEPOSIT OF INSOLUBLE ALBUMINATE OF SILVER). ABSORPTION INTO THE BODY LEADS TO THE FORMATION OF METHEMOGLOBIN WHICH IN SUFFICIENT CONCENTRATION CAUSES CYANOSIS. ONSET MAY BE DELAYED 2 TO 4 HOURS OR LONGER.	
	TO THE BEST OF OUR KNOWLEDGE. THE CHEMICAL	

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

# SECTION 12. ECOLOGICAL INFORMATION

TOXICITY	
TOXICITY TO FISH	SEMI-STATIC TEST LC50 - PIMEPHALES PROMELAS
	(FATHEAD MINNOW) - 0.0012 MG/L - 96 H
	(US-EPA)
TOXICITY TO DAPHNIA AND	SEMI-STATIC TEST LC50 - DAPHNIA MAGNA (WATER
OTHER AQUATIC	FLEA) - 0.00022 MG/L - 48 H
INVERTEBRATES	REMARKS: (ECHA)
PERSISTENCE AND	THE METHODS FOR DETERMINING THE BIOLOGICAL
DEGRADABILITY	DEGRADABILITY ARE NOT APPLICABLE TO
	INORGANIC SUBSTANCES.

**BIOACCUMULATIVE POTENTIAL** 

# BIOACCUMULATIONCYPRINUS CARPIO (CARP) - 41 D<br/>AT 20 C(SILVER NITRATE)BIOCONCENTRATION FACTOR (BCF): 70

MOBILITY IN SOIL NO DATA AVAILABLE

**RESULTS OF PBT AND**PBT/VPVB ASSESSMENT NOT AVAILABLE AS**VPVB ASSESSMENT**CHEMICAL SAFETY ASSESSMENT NOTREQUIRED/NOT CONDUCTED

**OTHER ADVERSE EFFECTS** NO DATA AVAILABLE

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

PRODUCT

WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH THE NATIONAL AND LOC NO MIXING WITH OTHER WASTE. HANDLE UNCLEANED CONTAINERS LIKE THE PRODUCT FOR PROCESSES REGARDING THE RETURN OF CHEMICALS AND CONTAINERS, OR CONTACT US THERE IF YOU HAVE FURTHER QUESTIONS.

#### SECTION 14. TRANSPORT INFORMATION

DOT (US)	
PROPER SHIPPING NAME:	SILVER NITRATE
UN NUMBER:	1493
CLASS:	5.1
PACKING GROUP:	II
REPORTABLE QUANTITY	1 LBS
(RQ):	
POISON INHALATION	NO
HAZARD:	
IMDG	
PROPER SHIPPING NAME:	SILVER NITRATE
UN NUMBER:	1493
CLASS:	5.1
PACKING GROUP:	II
EMS-NO:	F-A, S-Q
MARINE POLLUTANT:	YES

#### IATA

PROPER	SHIPPING NAME:	SILVER	NITRATE

UN NUMBER:	1493
CLASS:	5.1
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	THE FOLLOWING COMPONENTS ARE SUBJECT TO REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313:	
Silver nitrate	CAS-NO. 7761-88-8	REVISION DATE 2/16/1993

#### SARA 311/312 HAZARDS REACTIVITY HAZARD, ACUTE HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

#### SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.		
H272	MAY INTENSIFY FIRE; OXIDISER.	
H290	MAY BE CORROSIVE TO METALS.	
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.	
H410	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING	
	EFFECTS.	

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 ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST		
INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF		
MEDCHANTADILITY OD ANV OTHED WADDANTY EVDDECC OD IMDLIED. WITH DECDECT		

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VERSION: 3.1

REVISION DATE: 01/27/2017