Chem-Impex International Inc.

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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	35817
NAME:	Silver chromate
SYNONYMS:	Chromic acid, disilver(I) salt
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) OXIDIZING SOLIDS (CATEGORY 2), H272 SKIN SENSITISATION (CATEGORY 1), H317 CARCINOGENICITY (CATEGORY 1B), H350 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.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H350	MAY CAUSE CANCER.
H410	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING
	EFFECTS.

PRECAUTIONARY STATEMENT(S)

HAZARDS NOT	NONE
	WASTE DISPOSAL PLANT.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
P405	STORE LOCKED UP.
P391	COLLECT SPILLAGE.
	ALCOHOL-RESISTANT FOAM TO EXTINGUISH.
P370 + P378	IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR
P363	WASH CONTAMINATED CLOTHING BEFORE REUSE.
	ADVICE/ ATTENTION.
P333 + P313	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL
	ATTENTION.
P308 + P313	IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/
P302 + P352	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
	PROTECTION/ FACE PROTECTION.
P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE
P273	AVOID RELEASE TO THE ENVIRONMENT.
	ALLOWED OUT OF THE WORKPLACE.
P272	CONTAMINATED WORK CLOTHING MUST NOT BE
	SPRAY.
P261	AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/
	COMBUSTIBLES.
P221	TAKE ANY PRECAUTION TO AVOID MIXING WITH
	MATERIALS.
P220	KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE
P210	KEEP AWAY FROM HEAT.
	BEEN READ AND UNDERSTOOD.
P202	DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE
P201	OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
INECAUIIONANI	STATEMENT(S)

OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:	Ag ₂ CrO ₄
MW:	331.73
CAS-NO.	7784-01-2
PURITY:	98 - 102% (Ag content : 64 - 66%)

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Silver chromate		
	OX. SOL. 2; SKIN SENS. 1;	<= 100%
	CARC. 1B; AQUATIC ACUTE 1;	
	AQUATIC CHRONIC 1; H272,	
	H317, H350, H400, H410	

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	FLUSH EYES WITH WATER AS A PRECAUTION.
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

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	SILVER/SILVER OXIDES, CHROMIUM OXIDES
ADVICE FOR FIREFIGHTERS	WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.
FURTHER INFORMATION	USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	USE PERSONAL PROTECTIVE EQUIPMENT. 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	SWEEP UP AND SHOVEL. CONTAIN SPILLAGE, AND THEN COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET- BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.
REFERENCE TO OTHER SECTIONS	FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE	AVOID CONTACT WITH SKIN AND EYES. AVOID
HANDLING	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.KEEP AWAY FROM
	SOURCES OF IGNITION - NO SMOKING.KEEP AWAY
	FROM HEAT AND SOURCES OF IGNITION.
	FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND
STORAGE, INCLUDING	WELL-VENTILATED PLACE.
ANY INCOMPATIBILITIES	LIGHT SENSITIVE. HYGROSCOPIC KEEP IN A DRY
	PLACE.
	Store at RT
ODECIEIC END LIGE(C)	
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		
	REMARKS	SEE TAE	BLE Z-2 FOR THE	EXPOSURE LIMIT FOR ANY	
		OPERAT	OPERATIONS OR SECTORS WHERE THE EXPOSURE		
		LIMIT IN	N 1910.1026 IS ST	TAYED OR IS OTHERWISE NOT	
		IN EFFE	СТ		
		SUBSTA	SUBSTANCE LISTED; FOR MORE INFORMATION SEE		
		OSHA DOCUMENT			
		1910.102	6		
Silver chromate	7784-01-2	CEIL	1MG/10M3	USA. OCCUPATIONAL	
				EXPOSURE LIMITS (OSHA) -	
				TABLE Z-2	
		Z37.7-1971			
		THIS STANDARD APPLIES TO ANY OPERATIONS OR SECTORS FOR WHICH THE EXPOSURE LIMIT IN THE CHROMIUM (VI) STANDARD, SEC. 1910.1026, IS			
		STAYED	OR IS OTHERWI	SE NOT IN EFFECT.	

ГГ	DET		
	PEL	0.005 MG/M3	OSHA SPECIFICALLY
			REGULATED
			CHEMICALS/CARCINOGENS
	1910.102	26	
	THIS ST	ANDARD APPLI	ES TO OCCUPATIONAL
	EXPOSU	JRES TO CHROM	IIUM (VI) IN ALL FORMS AND
	COMPO	UNDS IN GENER	AL INDUSTRY, EXCEPT: (A)
	EXPOSU	JRES THAT OCCU	UR IN THE APPLICATION OF
	PESTIC	IDES REGULATE	D BY THE ENVIRONMENTAL
	PROTEC	CTION AGENCY	OR ANOTHER FEDERAL
	GOVER	NMENT AGENCY	Y (E.G., THE TREATMENT OF
	WOOD	WITH PRESERVA	TIVES); (B) EXPOSURES TO
	PORTLA	AND CEMENT; O	R (C) WHERE THE EMPLOYER
	HAS OF	JECTIVE DATA I	DEMONSTRATING THAT A
	MATER	IAL CONTAINING	G CHROMIUM OR A SPECIFIC
	PROCES	SS, OPERATION,	OR ACTIVITY INVOLVING
	CHROM	IIUM CANNOT R	ELEASE DUSTS, FUMES, OR
	MISTS (OF CHROMIUM (VI) IN CONCENTRATIONS AT
	OR ABC	OVE 0.5 GM/M3 A	AS AN 8-HOUR TIME-
	WEIGH	TED AVERAGE (1	ΓWA) UNDER ANY EXPECTED
	CONDI	TIONS OF USE.	
	CHROM	IIUM (VI) [HEXA	VALENT CHROMIUM OR
	CR(VI)]	MEANS CHROM	IUM WITH A VALENCE OF
	POSITIV	/E SIX, IN ANY F	ORM AND IN ANY COMPOUND
	OSHA S	PECIFICALLY RE	EGULATED CARCINOGEN
	TWA	0.0002 MG/M3	USA. NIOSH RECOMMENDED
			EXPOSURE LIMITS
	POTEN	FIAL OCCUPATIC	DNAL CARCINOGEN
	SEE API	PENDIX C	
	SEE API	PENDIX A	

EXPOSURE CONTROLS

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

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE	FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR
PROTECTION	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.

BODY PROTECTION	COMPLETE 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.

RESPIRATORYWHERE RISK ASSESSMENT SHOWS AIR-PURIFYINGPROTECTIONRESPIRATORS ARE APPROPRIATE USE A FULLFACE 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 OFPREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DOENVIRONMENTALSO. DO NOT LET PRODUCT ENTER DRAINS.EXPOSUREDISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Dark brown to black powder
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	
POINT/FREEZING POINT	
INITIAL BOILING POINT	
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	5.63
WATER SOLUBILITY	NO DATA AVAILABLE
PARTITION COEFFICIENT:	NO DATA AVAILABLE
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 INFORMATION

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	STRONG REDUCING AGENTS, ALCOHOLS, STRONG ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS	HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS SILVER/SILVER OXIDES, CHROMIUM 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 NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN N CORROSION/IRRITATION

SERIOUS EYE DAMAGE/EYE IRRITATION NO DATA AVAILABLE

RESPIRATORY OR SKIN SENSITISATION	NO DATA AVAILABLE
GERM CELL MUTAGENICITY	NO DATA AVAILABLE
CARCINOGENICITY	
POSSIBLE HUMAN CARCINOG	
IARC:	1 - GROUP 1: CARCINOGENIC TO HUMANS
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:	OSHA SPECIFICALLY REGULATED CARCINOGEN
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: NOT AVAILABLE
	MAY CAUSE ARGYRIA (A SLATE-GRAY OR BLUISH DISCOLORATION OF THE SKIN AND DEEP TISSUES DUE TO THE DEPOSIT OF INSOLUBLE ALBUMINATE OF SILVER).
	STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE

SECTION 12. ECOLOGICAL INFORMATION

ΤΟΧΙCITY	NO DATA AVAILABLE
PERSISTENCE AND DEGRADABILITY	NO DATA AVAILABLE
BIOACCUMULATIVE POTENTIAL	NO DATA 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** AN ENVIRONMENTAL HAZARD CANNOT BE OTHER ADVERSE EFFECTS EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DISPOSAL. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. 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 PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. **TRANSPORT INFORMATION**

DOT (US)	
PROPER SHIPPING NAME:	OXIDIZING SOLID, N.O.S. (Silver chromate)
UN NUMBER:	1479
CLASS:	5.1
PACKING GROUP:	II
REPORTABLE QUANTITY	
(RQ):	
POISON INHALATION	NO
HAZARD:	
IMDG	
PROPER SHIPPING NAME:	OXIDIZING SOLID, N.O.S. (Silver chromate)
UN NUMBER:	1479
CLASS:	5.1
PACKING GROUP:	II
EMS-NO:	F-A, S-Q

MARINE POLLUTANT: YES

IATAPROPER SHIPPING NAME:OXIDIZING SOLID, N.O.S. (Silver chromate)UN NUMBER:1479CLASS:5.1PACKING GROUP:II

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	NO CHEMICALS IN THIS MA THE REPORTING REQUIREN SECTION 302.	
SARA 313 COMPONENTS	THE FOLLOWING COMPONENTS ARE SUBJECT TO REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313:	
	CAS-NO.	REVISION DATE
Silver chromate	7784-01-2	04-24-1993
SARA 311/312 HAZARDS	REACTIVITY HAZARD, ACU CHRONIC HEALTH HAZARI	
MASSACHUSETTS RIGHT TO KNOW COMPONENTS		
	CAS-NO.	REVISION DATE
Silver chromate	7784-01-2	04-24-1993
PENNSYLVANIA RIGHT TO	KNOW COMPONENTS	
	CAS-NO.	REVISION DATE
Silver chromate	7784-01-2	04-24-1993
NEW JERSEY RIGHT TO KNOW COMPONENTS		
	CAS-NO.	REVISION DATE
Silver chromate	7784-01-2	04-24-1993
CALIFORNIA PROP. 65 COMPONENTS		
WHICH IS/ARE KNOWN TO 7	THE STATE OF CALIFORNIA T	O CAUSE CANCER AND
BIRTH DEFECTS OR OTHER	REPRODUCTIVE HARM. FOR	MORE INFORMATION GO
TO WWW.P65WARNINGS.CA	.GOV	

CAS-NO.REVISION DATESilver chromate7784-01-206-06-2014

SECTION 16. OTHER INFORMATION

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

H272	MAY INTENSIFY FIRE; OXIDISER.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H350	MAY CAUSE CANCER.

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:	

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