# **Chem-Impex International Inc.**

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### SAFETY DATA SHEET

#### SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	24475
NAME:	Difluoroacetic acid
SYNONYMS:	1,1-Difluoroacetic acid
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 4), H227

SKIN CORROSION (CATEGORY 18), 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

•	
ANGER	

HAZARD STATEMENT(S)			
H227	COMBUSTIBLE LIQUID		
H314	CAUSES SEVERE SKIN BURNS AND EYE		
11011	DAMAGE.		
PRECAUTIONARY STAT			
P210	KEEP AWAY FROM HEAT/SPARKS/OPEN		
1210	FLAMES/HOT SURFACES NO SMOKING.		
P264	WASH SKIN THOROUGHLY AFTER HANDLING.		
P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE		
1200	CLOTHING/ EYE PROTECTION/ FACE		
	PROTECTION.		
P301 + P330 + P331	IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE		
1501 1550 1551	VOMITING.		
P303 + P361 + P353	IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF		
1303 + 1301 + 1333	IMMEDIATELY ALL CONTAMINATED CLOTHING.		
	RINSE SKIN WITH WATER/ SHOWER.		
P304 + P340	IF INHALED: REMOVE VICTIM TO FRESH AIR		
1304 + 1340	AND KEEP AT REST IN A POSITION		
	COMFORTABLE FOR BREATHING.		
P305 + P351 + P338	IF IN EYES: RINSE CAUTIOUSLY WITH WATER		
1303 + 1331 + 1338	FOR SEVERAL MINUTES. REMOVE CONTACT		
	LENSES, IF PRESENT AND EASY TO DO.		
	CONTINUE RINSING.		
P310	IMMEDIATELY CALL A POISON CENTER OR		
F310	DOCTOR/ PHYSICIAN.		
P321	SPECIFIC TREATMENT (SEE SUPPLEMENTAL		
1321	FIRST AID INSTRUCTIONS ON THIS LABEL).		
P363	WASH CONTAMINATED CLOTHING BEFORE		
F 303	REUSE.		
P370 + P378	IN CASE OF FIRE: USE DRY SAND, DRY		
F3/0 + F3/8	CHEMICAL OR ALCOHOL-RESISTANT FOAM FOR		
	EXTINCTION.		
P403 + P235	STORE IN A WELL-VENTILATED PLACE. KEEP		
P403 + P233	COOL.		
P405	STORE LOCKED UP.		
P403 P501	DISPOSE OF CONTENTS/ CONTAINER TO AN		
P301	APPROVED WASTE DISPOSAL PLANT.		
HAZADDS NOT	LACHRYMATOR.		
HAZARDS NOT OTHERWISE	LAURTIMAIUK.		
CLASSIFIED (HNOC)			
OR NOT COVERED			
BY GHS			

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

MF: C <sub>2</sub>	$H_2F_2O_2$
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MW: 96.03

CAS-NO. 381-73-7

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

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Difluoroacetic acid		
	FLAM. LIQ. 4; SKIN CORR. 1B;	-
	EYE DAM. 1; H227, H314	

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	
II' INHALED	NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.	
	CONSULT A PHYSICIAN.	
DI CAGE OF GUDI		
IN CASE OF SKIN	TAKE OFF CONTAMINATED CLOTHING AND SHOES	
CONTACT	IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF	
	WATER. CONSULT A PHYSICIAN.	
IN CASE OF EYE	RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT	
CONTACT	LEAST 15 MINUTES AND CONSULT A	
	PHYSICIAN.CONTINUE RINSING EYES DURING	
	TRANSPORT TO HOSPITAL.	
IF SWALLOWED	DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING	
	BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE	
	MOUTH WITH WATER. CONSULT A PHYSICIAN.	
MOST IMPORTANT	THE MOST IMPORTANT KNOWN SYMPTOMS AND	
SYMPTOMS AND	EFFECTS ARE DESCRIBED IN THE LABELLING (SEE	
EFFECTS, BOTH ACUTE	SECTION 2.2) AND/OR IN SECTION 11	
AND DELAYED		
INDICATION OF ANY	NO DATA AVAILABLE	
IMMEDIATE MEDICAL		
ATTENTION AND SPECIAL		
TREATMENT NEEDED		
I KEAI MEN I NEEDED		

#### SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA	
SUITABLE EXTINGUISHING	FOR SMALL (INCIPIENT) FIRES, USE MEDIA SUCH AS
MEDIA	"ALCOHOL" FOAM, DRY CHEMICAL, OR CARBON
	DIOXIDE. FOR LARGE FIRES, APPLY WATER FROM AS

FAR AS POSSIBLE. USE VERY LARG	E QUANTITIES
(FLOODING) OF WATER APPLIED AS	S A MIST OR SPRAY;
SOLID STREAMS OF WATER MAY B	E INEFFECTIVE.
COOL ALL AFFECTED CONTAINERS	S WITH FLOODING
QUANTITIES OF WATER.	
SPECIAL HAZARDS CARBON OXIDES, HYDROGEN FLU	ORIDE
ARISING FROM THE	
SUBSTANCE OR MIXTURE	
ADVICE FOR WEAR SELF CONTAINED BREATHIN	NG APPARATUS FOR
FIREFIGHTERS FIRE FIGHTING IF NECESSARY.	
FURTHER INFORMATION USE WATER SPRAY TO COOL UNOP	ENED CONTAINERS.
FURTHER INFORMATION USE WATER SPRAY TO COOL UNOP	ENED CONTAINERS.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS,	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID
PROTECTIVE EQUIPMENT	BREATHING VAPOURS, MIST OR GAS. ENSURE
AND EMERGENCY	ADEQUATE VENTILATION. REMOVE ALL SOURCES OF
PROCEDURES	IGNITION. EVACUATE PERSONNEL TO SAFE AREAS.
	BEWARE OF VAPOURS ACCUMULATING TO FORM
	EXPLOSIVE CONCENTRATIONS. VAPOURS CAN
	ACCUMULATE IN LOW AREAS.
	FOR PERSONAL PROTECTION SEE SECTION 8.
ENVIRONMENTAL	PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE
PRECAUTIONS	TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.
METHODS AND	CONTAIN SPILLAGE, AND THEN COLLECT WITH AN
MATERIALS FOR	ELECTRICALLY PROTECTED VACUUM CLEANER OR BY
CONTAINMENT AND	WET-BRUSHING AND PLACE IN CONTAINER FOR
CLEANING UP	DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE
	SECTION 13). KEEP IN SUITABLE, CLOSED CONTAINERS
	FOR DISPOSAL.
<b>REFERENCE TO OTHER</b>	FOR DISPOSAL SEE SECTION 13.
SECTIONS	

### SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE	AVOID INHALATION OF VAPOUR OR MIST.
HANDLING	KEEP AWAY FROM SOURCES OF IGNITION - NO
	SMOKING. TAKE MEASURES TO PREVENT THE BUILD
	UP OF ELECTROSTATIC CHARGE.
	FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND
STORAGE, INCLUDING	WELL-VENTILATED PLACE. CONTAINERS WHICH ARE
ANY INCOMPATIBILITIES	OPENED MUST BE CAREFULLY RESEALED AND KEPT
	UPRIGHT TO PREVENT LEAKAGE.
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	CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.
<b>EXPOSURE CONTROLS</b> APPROPRIATE ENGINEERING CONTROLS PERSONAL PROTECTIVE E EYE/FACE PROTECTION	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY. QUIPMENT TIGHTLY FITTING SAFETY GOGGLES. FACESHIELD (8- INCH MINIMUM). USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU). 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. FULL CONTACT MATERIAL: FLUORINATED RUBBER MINIMUM LAYER THICKNESS: 0.7 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:VITOJECT (KCL 890, SIZE M)
	SPLASH CONTACT MATERIAL: NATURE LATEX/CHLOROPRENE MINIMUM LAYER THICKNESS: 0.6 MM BREAK THROUGH TIME: 30 MIN MATERIAL TESTED:LAPREN (KCL 706, SIZE M)
BODY PROTECTION	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. COMPLETE SUIT PROTECTING AGAINST CHEMICALS,
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.

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING
<b>RESPIRATORS ARE APPROPRIATE USE A FULL-FACE</b>
<b>RESPIRATOR WITH MULTI- PURPOSE COMBINATION</b>
(US) OR TYPE ABEK (EN 14387) 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).
PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO
DO SO. DO NOT LET PRODUCT ENTER DRAINS.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE	Colorless or light yellow transparent liquid
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	-1 °C
POINT/FREEZING POINT	
BOILING POINT	132 - 134 °C
FLASH POINT	
EVAPOURATION 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	1.526 g/mL at 25 °C
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	NO DATA AVAILABLE
OTHER SAFETY	NO DATA AVAILABLE
INFORMATION	

### SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	NO DATA AVAILABLE
CHEMICAL STABILITY	STABLE UNDER RECOMMENDED STORAGE
	CONDITIONS.
POSSIBILITY OF	NO DATA AVAILABLE
HAZARDOUS REACTIONS	
CONDITIONS TO AVOID	HEAT, FLAMES AND SPARKS.
INCOMPATIBLE	STRONG OXIDIZING AGENTSSTRONG OXIDIZING
MATERIALS	AGENTS, STRONG BASES
HAZARDOUS	OTHER DECOMPOSITION PRODUCTS - NO DATA
DECOMPOSITION	AVAILABLE
PRODUCTS	IN THE EVENT OF FIRE: SEE SECTION 5

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

SKIN

SERIOUS EYE

SENSITISATION GERM CELL

MUTAGENICITY

CORROSION/IRRITATION

RESPIRATORY OR SKIN

INFORMATION ON TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	NO DATA AVAILABLE

#### INHALATION: NO DATA AVAILABLE

#### DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE NO DATA AVAILABLE

NO DATA AVAILABLE

DAMAGE/EYE IRRITATION NO DATA AVAILABLE

NO DATA AVAILABLE

CARCINOGENICITY	
IARC:	NO COMPONENT OF THIS PRODUCT PRESENT AT
nince.	LEVELS GREATER THAN OR EQUAL TO 0.1% IS
	IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED
	HUMAN CARCINOGEN BY JARC.
ACGIH:	NO COMPONENT OF THIS PRODUCT PRESENT AT
ACOIN.	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
	CARCINOGEN BY NTP.
OSHA:	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	NO DATA AVAILABLE
TOXICITY - SINGLE	
EXPOSURE	

SPECIFIC TARGET ORGAN	NO DATA AVAILABLE
TOXICITY - REPEATED	
EXPOSURE	
ASPIRATION HAZARD	NO DATA AVAILABLE
ADDITIONAL	RTECS: AG9900000
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

## SECTION 12. ECOLOGICAL INFORMATION

TOXICITY	NO DATA AVAILABLE
PERSISTENCE AND	NO DATA AVAILABLE
DEGRADABILITY	
BIOACCUMULATIVE	NO DATA AVAILABLE
POTENTIAL	
MOBILITY IN SOIL	NO DATA AVAILABLE
RESULTS OF PBT AND VPVB	PBT/VPVB ASSESSMENT NOT AVAILABLE AS
ASSESSMENT	CHEMICAL SAFETY ASSESSMENT NOT
	REQUIRED/NOT CONDUCTED
OTHER ADVERSE EFFECTS	NO DATA AVAILABLE

### SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS		
PRODUCT	THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A	
	CHEMICAL INCINERATOR EQUIPPED WITH AN	
	AFTERBURNER AND SCRUBBER. OFFER SURPLUS AND	
	NON-RECYCLABLE SOLUTIONS TO A LICENSED	
	DISPOSAL COMPANY. CONTACT A LICENSED	
	PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE	
	OF THIS MATERIAL.	
CONTAMINATED	DISPOSE OF AS UNUSED PRODUCT.	
PACKAGING		

### SECTION 14. TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Difluoroacetic acid)
UN NUMBER:	3265
CLASS:	8
PACKING GROUP:	II
MARINE POLLUTANT:	NO
POISON INHALATION	NO
HAZARD:	
IMDG	
PROPER SHIPPING NAME:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Difluoroacetic acid)
UN NUMBER:	3265
CLASS:	8
PACKING GROUP:	II
EMS-NO:	F-A, S-B
MARINE POLLUTANT:	NO
IATA	
PROPER SHIPPING NAME:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	(Difluoroacetic acid)
UN NUMBER:	3265
CLASS:	8
PACKING GROUP:	II

### SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENT	TS SARA 302: NO CHE	EMICALS IN THIS MATERIAL ARE
	SUBJECT TO THE	REPORTING REQUIREMENTS OF SARA
	TITLE III, SECTION	N 302.
SARA 313 COMPONENT	SARA 313: THIS M.	ATERIAL DOES NOT CONTAIN ANY
	CHEMICAL COMP	ONENTS WITH KNOWN CAS NUMBERS
	THAT EXCEED TH	E THRESHOLD (DE MINIMIS)
	REPORTING LEVE	LS ESTABLISHED BY SARA TITLE III,
	SECTION 313.	
SARA 311/312 HAZARD	S FIRE HAZARD, AC	CUTE HEALTH HAZARD
MASSACHUSETTS RIG	HT NO COMPONENTS	SARE SUBJECT TO THE
TO KNOW COMPONEN	TS MASSACHUSETTS	S RIGHT TO KNOW ACT.
PENNSYLVANIA RIGHT	T TO KNOW COMPONENT	ſS
	CAS #	<b>REVISION DATE</b>
Difluoroacetic acid	381-73-7	
NEW JERSEY RIGHT TO	O KNOW COMPONENTS	
	CAS #	<b>REVISION DATE</b>
Difluoroacetic acid	381-73-7	
CALIFORNIA PROP. 65	THIS PRODUCT DO	OES NOT CONTAIN ANY CHEMICALS
COMPONENTS	KNOWN TO STATE	E 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.

EYE DAM.	SERIOUS EYE DAMAGE
FLAM. LIQ.	FLAMMABLE LIQUIDS
H227	COMBUSTIBLE LIQUID
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H318	CAUSES SERIOUS EYE DAMAGE.
HMIS RATING	
HEALTH HAZARD:	3
CHRONIC HEALTH	
HAZARD:	
FLAMMABILITY:	2
PHYSICAL HAZARD	0
NFPA RATING	
HEALTH HAZARD:	3
FIRE HAZARD:	2
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:	

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