# **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 #:	36092
NAME:	1-Chloromethyl-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate)
SYNONYMS:	<i>N</i> -Chloromethyl- <i>N</i> -fluorotriethylenediammonium bis(tetrafluoroborate)
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)** SELF-HEATING SUBSTANCES AND MIXTURES (CATEGORY 2), H252 ACUTE TOXICITY, ORAL (CATEGORY 4), H302 SERIOUS EYE DAMAGE (CATEGORY 1), H318 SKIN SENSITISATION (CATEGORY 1), H317 ACUTE AQUATIC TOXICITY (CATEGORY 3), H402 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 DAN

#### HAZARD STATEMENT(S)

H252	SELF-HEATING IN LARGE QUANTITIES; MAY CATCH FIRE.
H302	HARMFUL IF SWALLOWED.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H318	CAUSES SERIOUS EYE DAMAGE.
H412	HARMFUL TO AQUATIC LIFE WITH LONG LASTING
	EFFECTS.

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

HAZARDS NOT OTHERWISE	NONE
	WASTE DISPOSAL PLANT.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
P420	STORE AWAY FROM OTHER MATERIALS.
	TEMPERATURES NOT EXCEEDING .? C/ .? F.
P413	STORE BULK MASSES GREATER THAN .? KG/ .? LBS AT
P407	MAINTAIN AIR GAP BETWEEN STACKS/ PALLETS.
P363	WASH CONTAMINATED CLOTHING BEFORE REUSE.
	ADVICE/ ATTENTION.
P333 + P313	IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL
	POISON CENTER/DOCTOR
	EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A
P310	MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND
P305 + P351 + P338 +	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
P302 + P352	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
1001 1012 1000	FEEL UNWELL. RINSE MOUTH.
P301 + P312 + P330	IF SWALLOWED: CALL A POISON CENTER/DOCTOR IF YOU
1 200	PROTECTION.
P280	WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE
P273	AVOID RELEASE TO THE ENVIRONMENT.
1212	ALLOWED OUT OF THE WORKPLACE
P272	CONTAMINATED WORK CLOTHING SHOULD NOT BE
P270	DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P264 P270	WASH SKIN THOROUGHLY AFTER HANDLING.
D2(4	SPRAY.
P261	AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/
P235 + P410	KEEP COOL. PROTECT FROM SUNLIGHT.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

B <sub>2</sub> ClF <sub>9</sub> N <sub>2</sub>

MW: 354.26

CAS-NO. 140681-55-6

PURITY:  $\geq 95\%$  (Assay by titration)

### HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION	
1-Chloromethyl-4-fluoro-	1-Chloromethyl-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate)		
	SELF-HEAT. 2; ACUTE TOX. 4;	<= 100 %	
	EYE DAM. 1; SKIN SENS. 1;		
	AQUATIC ACUTE 3; AQUATIC		
	CHRONIC 3; H252, H302, H317,		
	H318, 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**

HYDROFLUORIC (HF) ACID BURNS REQUIRE **GENERAL ADVICE** IMMEDIATE AND SPECIALIZED FIRST AID AND MEDICAL TREATMENT. SYMPTOMS MAY BE DELAYED UP TO 24 HOURS DEPENDING ON THE CONCENTRATION OF HF. AFTER DECONTAMINATION WITH WATER, FURTHER DAMAGE CAN OCCUR DUE TO PENETRATION/ABSORPTION OF THE FLUORIDE ION. TREATMENT SHOULD BE DIRECTED TOWARD BINDING THE FLUORIDE ION AS WELL AS THE EFFECTS OF EXPOSURE. SKIN EXPOSURES CAN BE TREATED WITH A 2.5% CALCIUM GLUCONATE GEL REPEATED UNTIL BURNING CEASES. MORE SERIOUS SKIN EXPOSURES MAY REQUIRE SUBCUTANEOUS CALCIUM GLUCONATE EXCEPT FOR DIGITAL AREAS UNLESS THE PHYSICIAN IS EXPERIENCED IN THIS TECHNIQUE, DUE TO THE POTENTIAL FOR TISSUE INJURY FROM INCREASED PRESSURE. ABSORPTION CAN READILY

	OCCUR THROUGH THE SUBUNGUAL AREAS AND SHOULD BE CONSIDERED WHEN UNDERGOING DECONTAMINATION. PREVENTION OF ABSORPTION OF THE FLUORIDE ION IN CASES OF INGESTION CAN BE OBTAINED BY GIVING MILK, CHEWABLE CALCIUM CARBONATE TABLETS OR MILK OF MAGNESIA TO CONSCIOUS VICTIMS. CONDITIONS SUCH AS HYPOCALCEMIA, HYPOMAGNESEMIA AND CARDIAC ARRHYTHMIAS SHOULD BE MONITORED FOR, SINCE THEY CAN OCCUR AFTER EXPOSURE. CONSULT A PHYSICIAN. MOVE OUT OF DANGEROUS AREA. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.HYDROFLUORIC (HF) ACID BURNS REQUIRE IMMEDIATE AND SPECIALIZED FIRST AID AND MEDICAL TREATMENT. SYMPTOMS MAY BE DELAYED UP TO 24 HOURS DEPENDING ON THE CONCENTRATION OF HF. AFTER DECONTAMINATION WITH WATER, FURTHER DAMAGE CAN OCCUR DUE TO PENETRATION/ABSORPTION OF THE FLUORIDE ION. TREATMENT SHOULD BE DIRECTED TOWARD BINDING THE FLUORIDE ION AS WELL AS THE EFFECTS OF EXPOSURE. SKIN EXPOSURES CAN BE TREATED WITH A 2.5% CALCIUM GLUCONATE GEL REPEATED UNTIL BURNING CEASES. MORE SERIOUS SKIN EXPOSURES MAY REQUIRE SUBCUTANEOUS CALCIUM GLUCONATE EXCEPT FOR DIGITAL AREAS UNLESS THE PHYSICIAN IS EXPERIENCED IN THIS TECHNIQUE, DUE TO THE POTENTIAL FOR TISSUE INJURY FROM INCREASED PRESSURE. ABSORPTION CAN READILY OCCUR THROUGH THE SUBUNGUAL AREAS AND SHOULD BE CONSIDERED WHEN UNDERGOING DECONTAMINATION. PREVENTION OF ABSORPTION OF THE FLUORIDE ION IN CASES OF INGESTION CAN BE OBTAINED BY GIVING MILK, CHEWABLE CALCIUM CARBONATE TABLETS OR MILK OF MAGNESIA TO CONSCIOUS VICTIMS. CONDITIONS SUCH AS HYPOCALCEMIA, HYPOMAGNESEMIA AND CARDIAC ARRHYTHMIAS SHOULD BE MONITORED FOR, SINCE THEY CAN OCCUR AFTER EXPOSURE.
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.FIRST TREATMENT WITH CALCIUM GLUCONATE PASTE.
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	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	

NO DATA AVAILABLE

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

### SECTION 5. FIRE AND EXPLOSION DATA

#### **EXTINGUISHING MEDIA**

SUITABLEUSE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRYEXTINGUISHING MEDIACHEMICAL OR CARBON DIOXIDE.

**SPECIAL HAZARDS** NO DATA AVAILABLE

ARISING FROM THE SUBSTANCE OR MIXTURE

**ADVICE FOR**WEAR SELF CONTAINED BREATHING APPARATUS FOR**FIREFIGHTERS**FIRE FIGHTING 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 WETBRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). KEEP IN SUITABLE,

CLOSED CONTAINERS FOR DISPOSAL. CONTAIN SPILLAGE, PICK UP WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET-BRUSHING AND TRANSFER TO A CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13).

**REFERENCE TO OTHER** FOR DISPOSAL SEE SECTION 13. **SECTIONS** 

### 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.KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. HANDLE AND STORE UNDER INERT GAS. KEEP IN A DRY PLACE.
SPECIFIC END USE(S)	Store at 2 - 8 °C 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.

### **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 PROTECTIONFACE SHIELD AND SAFETY GLASSES USE EQUIPMENT<br/>FOR EYE PROTECTION TESTED AND APPROVED UNDER<br/>APPROPRIATE GOVERNMENT STANDARDS SUCH AS<br/>NIOSH (US) OR EN 166(EU).

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.

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 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.

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

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INFORMATION ON PASIC	DIWOLCAL AND CHEMICAL DRODEDTIES
	PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE	White powder
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	260 °C
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	
WATER SOLUBILITY	SOLUBLE
PARTITION COEFFICIENT:	NO DATA AVAILABLE
N- OCTANOL/WATER	
AUTO-IGNITION	THE SUBSTANCE OR MIXTURE IS CLASSIFIED AS SELF
TEMPERATURE	HEATING WITH THE CATEGORY 2.
DECOMPOSITION	NO DATA AVAILABLE
TEMPERATURE	
VISCOSITY	NO DATA AVAILABLE
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE
OXIDIZING PROPERTIES	NO DATA AVAILABLE
OTHED SAFETV INFORMA	TION

**OTHER SAFETY INFORMATION** 

NO DATA AVAILABLE

### SECTION 10. STABILITY AND REACTIVITY

REACTIVITY CHEMICAL STABILITY	NO DATA AVAILABLE STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DATA AVAILABLE
CONDITIONS TO AVOID	AVOID MOISTURE.
INCOMPATIBLE MATERIALS	STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS CARBON OXIDES, NITROGEN OXIDES (NOX), HYDROGEN CHLORIDE GAS, HYDROGEN FLUORIDE, BORANE/BORON OXIDES OTHER DECOMPOSITION PRODUCTS - GASEOUS HYDROGEN FLUORIDE (HF). IN THE EVENT OF FIRE: SEE SECTION 5

## SECTION 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	LD50 ORAL - RAT - 500 MG/KG
	INHALATION: NO DATA AVAILABLE
	LD50 DERMAL - RAT - > 2,000 MG/KG
	NO DATA AVAILABLE
SKIN CORROSION/IRRITATION	NO DATA AVAILABLE
SERIOUS EYE DAMAGE/EYE IRRITATION	SEVERE EYE IRRITATION
RESPIRATORY OR SKIN SENSITISATION	NO DATA AVAILABLE
GERM CELL MUTAGENICITY	NO DATA AVAILABLE

CARCINOGENICITY	
IARC:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED
ACGIH:	HUMAN CARCINOGEN BY IARC. 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: NOT AVAILABLE
	FLUORIDE ION CAN REDUCE SERUM CALCIUM LEVELS POSSIBLY CAUSING FATAL HYPOCALCEMIA.
	TOXICITY REPORTED FOR BORATES IN HUMANS: INGESTION OR ABSORPTION MAY CAUSE NAUSEA, VOMITING, DIARRHEA, ABDOMINAL CRAMPS, ANDERYTHEMATOUS LESIONS ON THE SKIN AND MUCOUS MEMBRANES. OTHER SYMPTOMS INCLUDE: CIRCULATORY COLLAPSE, TACHYCARDIA, CYANOSIS, DELIRIUM, CONVULSIONS, AND COMA. DEATH HAS BEEN REPORTED TO OCCUR IN INFANTS FROM LESS THAN 5 GRAMS AND IN ADULTS FROM 5 TO 20 GRAMS., STOMACH/INTESTINAL DISORDERS, KIDNEY INJURY MAY OCCUR, DROWSINESS, FATIGUE, DIZZINESS, ATAXIA., HYPERACTIVITY, SALIVATION
	EVIDENCE

### SECTION 12. ECOLOGICAL INFORMATION

ΤΟΧΙCITY	
TOXICITY TO FISH	LC50 - ONCORHYNCHUS MYKISS (RAINBOW TROUT) - 100.0 MG/L - 24.0 H
TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES	EC50 - DAPHNIA MAGNA (WATER FLEA) - 25 MG/L - 48 H
PERSISTENCE AND DEGRADABILITY	NO DATA AVAILABLE
BIOACCUMULATIVE POTENTIAL	NO DATA AVAILABLE
MOBILITY IN SOIL	NO DATA AVAILABLE
RESULTS OF PBT AND VPVB ASSESSMENT	PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED
OTHER ADVERSE EFFECTS	AN ENVIRONMENTAL HAZARD CANNOT BE EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DISPOSAL. HARMFUL TO AQUATIC LIFE.

### SECTION 13. DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

PRODUCT	<ul> <li>BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY</li> <li>FLAMMABLE. OFFER SURPLUS AND NON-RECYCLABLE</li> <li>SOLUTIONS TO A LICENSED DISPOSAL COMPANY.</li> <li>CONTACT A LICENSED PROFESSIONAL WASTE</li> <li>DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.</li> <li>DISSOLVE OR MIX THE MATERIAL WITH A</li> <li>COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL</li> <li>INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.</li> </ul>
CONTAMINATED	DISPOSE OF AS UNUSED PRODUCT.

PACKAGING

### SECTION 14. TRANSPORT INFORMATION

DOT (US)	
PROPER SHIPPING NAME:	SELF-HEATING SOLID, ORGANIC, N.O.S. (1,4- DIAZONIABICYCLO[2.2.2]OCTANE, 1- CHLOROMETHYL)-4-FLUORO-, TETRAFLUOROBORATE(1-) (1:2))
UN NUMBER:	3088
CLASS:	4 2
PACKING GROUP:	II
REPORTABLE QUANTITY (RQ):	-
POISON INHALATION	NO
HAZARD:	NO
IMDG	
PROPER SHIPPING NAME:	SELF-HEATING SOLID, ORGANIC, N.O.S. (1,4- DIAZONIABICYCLO[2.2.2]OCTANE, 1- CHLOROMETHYL)-4-FLUORO-, TETRAFLUOROBORATE(1-) (1:2))
UN NUMBER:	3088
CLASS:	4.2
PACKING GROUP:	II
EMS-NO:	F-A, S-J
IATA	
PROPER SHIPPING NAME:	SELF-HEATING SOLID, ORGANIC, N.O.S. (1,4- DIAZONIABICYCLO[2.2.2]OCTANE, 1- CHLOROMETHYL)-4-FLUORO-, TETRAFLUOROBORATE(1-) (1:2))
UN NUMBER:	3088
CLASS:	4.2
PACKING GROUP:	II

### SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.
SARA 313 COMPONENTS	THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.
SARA 311/312 HAZARDS	REACTIVITY HAZARD, ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

### MASSACHUSETTS RIGHT TO KNOW COMPONENTS

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

### PENNSYLVANIA RIGHT TO KNOW COMPONENTS

1-Chloromethyl-4-fluoro-1,4diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate)

CAS-NO. 140681-55-6

CAS-NO.

140681-55-6

**REVISION DATE** 

### NEW JERSEY RIGHT TO KNOW COMPONENTS

1-Chloromethyl-4-fluoro-1,4diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate)

**REVISION DATE** 

### **CALIFORNIA PROP. 65 COMPONENTS**

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN 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
EYE DAM.	SERIOUS EYE DAMAGE
H252	SELF-HEATING IN LARGE QUANTITIES; MAY CATCH
	FIRE.
H302	HARMFUL IF SWALLOWED.
H317	MAY CAUSE AN ALLERGIC SKIN REACTION.
H318	CAUSES SERIOUS EYE DAMAGE.
H402	HARMFUL TO AQUATIC LIFE.
H412	HARMFUL TO AQUATIC LIFE WITH LONG LASTING
	EFFECTS.

### **HMIS RATING**

HEALTH HAZARD:	2
CHRONIC HEALTH	
HAZARD:	
FLAMMABILITY:	0
PHYSICAL HAZARD	2

### NFPA RATING

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

MSDS LEGEND	
MW:	MOLECULAR WEIGHT
MF:	MOLECULAR FORMULA

VOLATILE ORGANIC COMPOUNDS
AMERICAN CONFERENCE OF GOVERNMENENTAL
INDUSTRIAL HYGINISTS
CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OCCUPATIONAL SAFETY AND HEALTH
ADMINISTRATION
PERMISSIBLE EXPOSURE LIMIT (OSHA)
THRESHOLD LIMIT VALUE (ACGIH)

**IMPORTANT:** 

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VERSION: 3.1

REVISION DATE: 01/27/2017