

# *Chem-Impex International Inc.*

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825 Dillon Drive  
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## SAFETY DATA SHEET

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### SECTION 1. CHEMICAL IDENTIFICATION

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|                                 |   |
|---------------------------------|---|
| CATALOG #:                      | 45579   |
| NAME:                           | 2-Chloro-2',4'-difluoroacetophenone                 |
| SYNONYMS:                       | 2,4-Difluorophenacyl chloride                       |
| 24 HOUR EMERGENCY<br>TELEPHONE: | (800) 535-5053(USA)<br>352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS:             | (800) 869-9290                                      |
| CUSTOMER<br>SERVICE:            | (630) 766-2112                                      |

### SECTION 2. HAZARDS IDENTIFICATION

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#### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

ACUTE TOXICITY, ORAL (CATEGORY 3), H301

ACUTE TOXICITY, INHALATION (CATEGORY 1), H330

SKIN CORROSION (CATEGORY 1B), H314

SERIOUS EYE DAMAGE (CATEGORY 1), H318

SKIN SENSITIZATION (SUB-CATEGORY 1A), H317

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 DANGER

**HAZARD STATEMENT(S)**

H301 TOXIC IF SWALLOWED.  
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.  
H330 FATAL IF INHALED.  
H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

**PRECAUTIONARY STATEMENT(S)**

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.  
P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.  
P272 CONTAMINATED WORK CLOTHING MUST NOT BE ALLOWED OUT OF THE WORKPLACE.  
P273 AVOID RELEASE TO THE ENVIRONMENT.  
P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.  
P284 WEAR RESPIRATORY PROTECTION.  
P301 + P310 + P330 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. RINSE MOUTH.  
P301 + P330 + P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.  
P303 + P361 + P353 IF ON SKIN (OR HAIR): 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 + P310 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER/DOCTOR.  
P333 + P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION.  
P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.  
P391 COLLECT SPILLAGE.  
P403 + P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.  
P405 STORE LOCKED UP.  
P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)** LACHRYMATOR.

**OR NOT COVERED  
BY GHS**

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

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MF: C<sub>8</sub>H<sub>5</sub>ClF<sub>2</sub>O  
MW: 190.57  
CAS-NO. 51336-94-8  
PURITY: ≥ 98% (GC)

**HAZARDOUS COMPONENTS**

| COMPONENT                                  | CLASSIFICATION  | CONCENTRATION |
|--|---|---------------|
| <b>2-Chloro-2',4'-difluoroacetophenone</b> |   |               |
|  | ACUTE TOX. 3; ACUTE TOX. 1;<br>SKIN CORR. 1B; EYE DAM. 1;<br>SKIN SENS. 1A; AQUATIC<br>CHRONIC 1; H301, H330, H314,<br>H318, H317, H410<br>M-FACTOR - AQUATIC CHRONIC:<br>1 | <= 100 %      |

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

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**SECTION 4. FIRST-AID MEASURES**

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**DESCRIPTION OF FIRST AID MEASURES**

**GENERAL ADVICE** FIRST AIDERS NEED TO PROTECT THEMSELVES. SHOW THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

**IF INHALED** AFTER INHALATION: FRESH AIR. IMMEDIATELY CALL IN PHYSICIAN. IF BREATHING STOPS: IMMEDIATELY APPLY ARTIFICIAL RESPIRATION, IF NECESSARY ALSO OXYGEN.

**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.

|   |   |
|---|---|
| <b>IF SWALLOWED</b>   | IF SWALLOWED: GIVE WATER TO DRINK (TWO GLASSES AT MOST). SEEK MEDICAL ADVICE IMMEDIATELY. IN EXCEPTIONAL CASES ONLY, IF MEDICAL CARE IS NOT AVAILABLE WITHIN ONE HOUR, INDUCE VOMITING (ONLY IN PERSONS WHO ARE WIDE AWAKE AND FULLY CONSCIOUS), ADMINISTER ACTIVATED CHARCOAL (20 - 40 G IN A 10% SLURRY) AND CONSULT A DOCTOR AS QUICKLY AS POSSIBLE. DO NOT ATTEMPT TO NEUTRALISE. |
| <b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED</b>                | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11.  |
| <b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED</b> | NO DATA AVAILABLE   |

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## **SECTION 5. FIRE AND EXPLOSION DATA**

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### **EXTINGUISHING MEDIA**

|                                     |  |
|-------------------------------------|--|
| <b>SUITABLE EXTINGUISHING MEDIA</b> | SUITABLE EXTINGUISHING MEDIA<br>WATER FOAM CARBON DIOXIDE (CO2) DRY POWDER |
|-------------------------------------|--|

UNSUITABLE EXTINGUISHING MEDIA  
FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF  
EXTINGUISHING AGENTS ARE GIVEN.

### **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

CARBON OXIDES  
HYDROGEN CHLORIDE GAS  
HYDROGEN FLUORIDE  
COMBUSTIBLE.  
VAPORS ARE HEAVIER THAN AIR AND MAY SPREAD  
ALONG FLOORS.  
FORMS EXPLOSIVE MIXTURES WITH AIR ON INTENSE  
HEATING.  
DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR  
VAPOURS POSSIBLE IN THE EVENT OF FIRE.

### **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.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

ADVICE FOR NON-EMERGENCY PERSONNEL: DO NOT BREATHE VAPORS, AEROSOLS. AVOID SUBSTANCE CONTACT. ENSURE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION. 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 CAREFULLY. DISPOSE OF PROPERLY. CLEAN UP AFFECTED AREA. AVOID GENERATION OF DUSTS.

**REFERENCE TO OTHER SECTIONS**

FOR DISPOSAL SEE SECTION 13.

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## SECTION 7. HANDLING AND STORAGE

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**PRECAUTIONS FOR SAFE HANDLING**

WORK UNDER HOOD. DO NOT INHALE SUBSTANCE/MIXTURE. IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE AFTER WORKING WITH SUBSTANCE. FOR PRECAUTIONS SEE SECTION 2.2.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

TIGHTLY CLOSED. DRY. KEEP IN A WELL-VENTILATED PLACE. KEEP LOCKED UP OR IN AN AREA ACCESSIBLE ONLY TO QUALIFIED OR AUTHORIZED PERSONS.

Store at 2 - 8 °C

**SPECIFIC END USE(S)**

APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **CONTROL PARAMETERS**

#### **COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

### **EXPOSURE CONTROLS**

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

### **PERSONAL PROTECTIVE EQUIPMENT**

|   |  |
|---|--|
| EYE/FACE PROTECTION                     | USE EQUIPMENT FOR EYE PROTECTION TESTED AND<br>APPROVED UNDER APPROPRIATE GOVERNMENT<br>STANDARDS SUCH AS NIOSH (US) OR EN 166(EU). TIGHTLY<br>FITTING SAFETY GOGGLES  |
| SKIN PROTECTION                         | HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED<br>PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE<br>(WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID<br>SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF<br>CONTAMINATED GLOVES AFTER USE IN ACCORDANCE<br>WITH APPLICABLE LAWS AND GOOD LABORATORY<br>PRACTICES. WASH AND DRY HANDS. |
| BODY PROTECTION                         | PROTECTIVE CLOTHING  |
| RESPIRATORY PROTECTION                  | REQUIRED WHEN DUSTS ARE GENERATED.<br>OUR RECOMMENDATIONS ON FILTERING RESPIRATORY<br>PROTECTION ARE BASED ON THE FOLLOWING STANDARDS:<br>DIN EN 143, DIN 14387 AND OTHER ACCOMPANYING<br>STANDARDS RELATING TO THE USED RESPIRATORY<br>PROTECTION SYSTEM.   |
| CONTROL OF<br>ENVIRONMENTAL<br>EXPOSURE | DO NOT LET PRODUCT ENTER DRAINS.   |

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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### **INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

|                 |   |
|-----------------|---|
| APPEARANCE      | Light yellow to brown powder to crystal |
| ODOUR           | CHARACTERISTIC ODOUR                    |
| ODOUR THRESHOLD | NO DATA AVAILABLE                       |

|  |                   |
|--|-------------------|
| PH   | NO DATA AVAILABLE |
| MELTING POINT/FREEZING POINT                 | 48 - 52 °C        |
| INITIAL BOILING POINT AND BOILING RANGE      |                   |
| FLASH POINT                                  | 113 °C            |
| EVAPOURATION RATE                            | NO DATA AVAILABLE |
| FLAMMABILITY (SOLID, GAS)                    | NO DATA AVAILABLE |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | NO DATA AVAILABLE |
| VAPOUR PRESSURE                              | NO DATA AVAILABLE |
| VAPOUR DENSITY                               | NO DATA AVAILABLE |
| RELATIVE DENSITY                             |                   |
| WATER SOLUBILITY                             | NO DATA AVAILABLE |
| PARTITION COEFFICIENT: N- OCTANOL/WATER      | NO DATA AVAILABLE |
| AUTO-IGNITION TEMPERATURE                    | NO DATA AVAILABLE |
| DECOMPOSITION TEMPERATURE                    | NO DATA AVAILABLE |
| VISCOSITY                                    | NO DATA AVAILABLE |
| EXPLOSIVE PROPERTIES                         | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES                         | NO DATA AVAILABLE |

**OTHER SAFETY INFORMATION**

NO DATA AVAILABLE

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**SECTION 10. STABILITY AND REACTIVITY**

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|   |   |
|---|---|
| <b>REACTIVITY</b>                         | FORMS EXPLOSIVE MIXTURES WITH AIR ON INTENSE HEATING.<br>A RANGE FROM APPROX. 15 KELVIN BELOW THE FLASH POINT IS TO BE RATED AS CRITICAL. THE FOLLOWING APPLIES IN GENERAL TO FLAMMABLE ORGANIC SUBSTANCES AND MIXTURES: IN CORRESPONDINGLY FINE DISTRIBUTION, WHEN WHIRLED UP A DUST EXPLOSION POTENTIAL MAY GENERALLY BE ASSUMED. |
| <b>CHEMICAL STABILITY</b>                 | THE PRODUCT IS CHEMICALLY STABLE UNDER STANDARD AMBIENT CONDITIONS.   |
| <b>POSSIBILITY OF HAZARDOUS REACTIONS</b> | NO DATA AVAILABLE   |
| <b>CONDITIONS TO AVOID</b>                | STRONG HEATING.   |
| <b>INCOMPATIBLE MATERIALS</b>             | STRONG BASES, STRONG OXIDIZING AGENTS   |

**HAZARDOUS  
DECOMPOSITION  
PRODUCTS**

IN THE EVENT OF FIRE: SEE SECTION 5

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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**INFORMATION ON TOXICOLOGICAL EFFECTS**

|  |  |
|--|--|
| <b>ACUTE TOXICITY</b>                        | LD50 ORAL - RAT - FEMALE - 215 MG/KG<br>REMARKS: (ECHA)<br><br>LC50 INHALATION - RAT - FEMALE - 4 H - > 0.043 - < 0.099<br>MG/L<br>(OECD TEST GUIDELINE 403)<br><br>DERMAL: NO DATA AVAILABLE<br><br>NO DATA AVAILABLE |
| <b>SKIN<br/>CORROSION/IRRITATION</b>         | SKIN - RABBIT<br>RESULT: CAUSES BURNS. - 1 H<br>(OECD TEST GUIDELINE 404)  |
| <b>SERIOUS EYE<br/>DAMAGE/EYE IRRITATION</b> | NO DATA AVAILABLE  |
| <b>RESPIRATORY OR SKIN<br/>SENSITISATION</b> | FREUND'S COMPLETE ADJUVANT TEST - GUINEA PIG<br>RESULT: CAUSES SENSITIZATION.<br>REMARKS: (ECHA)   |
| <b>GERM CELL<br/>MUTAGENICITY</b>            | TEST TYPE: AMES TEST<br>TEST SYSTEM: S. TYPHIMURIUM<br>METABOLIC ACTIVATION: WITH AND WITHOUT<br>METABOLIC ACTIVATION<br>METHOD: OECD TEST GUIDELINE 471<br>RESULT: NEGATIVE   |
| <b>CARCINOGENICITY</b>                       |  |
| IARC:  | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS<br>PROBABLE, POSSIBLE OR CONFIRMED HUMAN<br>CARCINOGEN BY IARC.   |
| NTP:   | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A<br>KNOWN OR ANTICIPATED CARCINOGEN BY NTP.  |
| OSHA:  | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF<br>REGULATED CARCINOGENS.   |



|   |  |
|---|--|
| <b>REPRODUCTIVE TOXICITY</b>                              | NO DATA AVAILABLE  |
| <b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE</b>   | NO DATA AVAILABLE  |
| <b>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</b> | NO DATA AVAILABLE  |
| <b>ASPIRATION HAZARD</b>                                  | NO DATA AVAILABLE  |
| <b>ADDITIONAL INFORMATION</b>                             | RTECS: NOT AVAILABLE<br><br>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, VOMITING, TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED. |

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## **SECTION 12. ECOLOGICAL INFORMATION**

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|  |   |
|--|---|
| <b>TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES</b> | STATIC TEST EC50 - DAPHNIA MAGNA (WATER FLEA) - 0.4 MG/L - 48 H                             |
| <b>TOXICITY TO BACTERIA</b>                                | STATIC TEST EC50 - PSEUDOMONAS PUTIDA - 970 MG/L - 0.5 H (DIN 38412)                        |
| <b>PERSISTENCE AND DEGRADABILITY</b>                       | NO DATA AVAILABLE   |
| <b>BIOACCUMULATIVE POTENTIAL</b>                           | NO DATA AVAILABLE   |
| <b>MOBILITY IN SOIL</b>                                    | NO DATA AVAILABLE   |
| <b>RESULTS OF PBT AND VPVB ASSESSMENT</b>                  | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED. |
| <b>OTHER ADVERSE EFFECTS</b>                               | NO DATA AVAILABLE   |

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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**WASTE TREATMENT METHODS**

|                               |   |
|-------------------------------|---|
| <b>PRODUCT</b>                | WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH THE NATIONAL AND LOCAL REGULATIONS. LEAVE CHEMICALS IN ORIGINAL CONTAINERS. NO MIXING WITH OTHER WASTE. |
| <b>CONTAMINATED PACKAGING</b> | DISPOSE OF AS UNUSED PRODUCT.   |

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**SECTION 14. TRANSPORT INFORMATION**

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**DOT (US)**

|                           |  |
|---------------------------|--|
| PROPER SHIPPING NAME:     | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ( 2-Chloro-2',4'-difluoroacetophenone ) |
| UN NUMBER:                | 3261   |
| CLASS:                    | 8  |
| PACKING GROUP:            | II   |
| REPORTABLE QUANTITY (RQ): |  |
| POISON INHALATION HAZARD: | NO   |

**IMDG**

|                       |  |
|-----------------------|--|
| PROPER SHIPPING NAME: | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ( 2-Chloro-2',4'-difluoroacetophenone ) |
| UN NUMBER:            | 3261   |
| CLASS:                | 8  |
| PACKING GROUP:        | II   |
| EMS-NO:               | F-A, S-B   |

**IATA**

|                       |  |
|-----------------------|--|
| PROPER SHIPPING NAME: | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ( 2-Chloro-2',4'-difluoroacetophenone ) |
| UN NUMBER:            | 3261   |
| CLASS:                | 8  |
| PACKING GROUP:        | II   |

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**SECTION 15. REGULATORY INFORMATION**

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**SARA 302 COMPONENTS** THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 302 EHS TPQ.

**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** ACUTE HEALTH HAZARD

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

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS**

|                                     | CAS-NO.    | REVISION DATE |
|-------------------------------------|------------|---------------|
| 2-Chloro-2',4'-difluoroacetophenone | 51336-94-8 |               |

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

|                                     | CAS-NO.    | REVISION DATE |
|-------------------------------------|------------|---------------|
| 2-Chloro-2',4'-difluoroacetophenone | 51336-94-8 |               |

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## SECTION 16. OTHER INFORMATION

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

|      |   |
|------|---|
| H301 | TOXIC IF SWALLOWED.                                   |
| H314 | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.              |
| H317 | MAY CAUSE AN ALLERGIC SKIN REACTION.                  |
| H330 | FATAL IF INHALED.                                     |
| 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 GOVERNMENTAL INDUSTRIAL HYGINISTS |
| CAS:   | CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER                |
| OSHA:  | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION            |
| PEL:   | PERMISSIBLE EXPOSURE LIMIT (OSHA)                        |
| TLV:   | THRESHOLD LIMIT VALUE (ACGIH)                            |

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