

# *Chem-Impex International Inc.*

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Tel: (630) 766-2112  
E-mail: [sales@chemimpex.com](mailto:sales@chemimpex.com)  
**Shipping and Correspondence:**  
935 Dillon Drive  
Wood Dale, IL 60191 USA

Fax: (630) 766-2218  
Web site: [www.chemimpex.com](http://www.chemimpex.com)  
**Manufacturing site:**  
825 Dillon Drive  
Wood Dale, IL 60191 USA

## SAFETY DATA SHEET

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### SECTION 1. CHEMICAL IDENTIFICATION

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|                                 |   |
|---------------------------------|---|
| CATALOG #:                      | 30086   |
| NAME:                           | Propionic acid                                      |
| SYNONYMS:                       | Ethylformic acid                                    |
| 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)**  
FLAMMABLE LIQUIDS (CATEGORY 3), H226  
SKIN CORROSION (CATEGORY 1B), H314  
SERIOUS EYE DAMAGE (CATEGORY 1), H318  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3),  
RESPIRATORY SYSTEM, H335

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)

H226 FLAMMABLE LIQUID AND VAPOUR.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

H318

H335 MAY CAUSE RESPIRATORY IRRITATION.

PRECAUTIONARY STATEMENT(S)

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.

P233 KEEP CONTAINER TIGHTLY CLOSED.

P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.

P241 USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING/ EQUIPMENT.

P242 USE ONLY NON-SPARKING TOOLS.

P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.

P261 AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.

P264 WASH SKIN THOROUGHLY AFTER HANDLING.

P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

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): 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 OR DOCTOR/ PHYSICIAN.

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 OR DOCTOR/ PHYSICIAN.

P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.

P370 + P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-RESISTANT FOAM TO EXTINGUISH.

P403 + P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

P403 + P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

P405 STORE LOCKED UP.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

**HAZARDS NOT  
OTHERWISE  
CLASSIFIED (HNOC)  
OR NOT COVERED  
BY GHS**

RAPIDLY ABSORBED THROUGH SKIN.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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MF:  $C_3H_6O_2$   
MW: 74.08  
CAS-NO. 79-09-4  
PURITY:  $\geq 99.5\%$  (Titration)

#### HAZARDOUS COMPONENTS

| COMPONENT      | CLASSIFICATION   | CONCENTRATION |
|----------------|--|---------------|
| PROPIONIC ACID | FLAM. LIQ. 3; SKIN CORR. 1B;<br>EYE DAM. 1; STOT SE 3; H226,<br>H314, H318, H335 | $\leq 100\%$  |

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** 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** TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

**IN CASE OF EYE CONTACT** RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN. CONTINUE RINSING EYES DURING TRANSPORT TO HOSPITAL.

|   |   |
|---|---|
| <b>IF SWALLOWED</b>   | DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN. |
| <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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|  |  |
|--|--|
| <b>EXTINGUISHING MEDIA</b>                                   |  |
| <b>SUITABLE EXTINGUISHING MEDIA</b>                          | USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. |
| <b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b> | CARBON OXIDES  |
| <b>ADVICE FOR FIREFIGHTERS</b>                               | WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.  |
| <b>FURTHER INFORMATION</b>                                   | USE WATER SPRAY TO COOL UNOPENED CONTAINERS.                             |

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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|  |  |
|--|--|
| <b>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES</b> | USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. REMOVE ALL SOURCES OF 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. |
| <b>ENVIRONMENTAL PRECAUTIONS</b>   | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.   |
| <b>METHODS AND MATERIALS FOR</b>   | CONTAIN SPILLAGE, AND THEN COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY   |

**CONTAINMENT AND  
CLEANING UP**

WET-BRUSHING AND PLACE IN CONTAINER FOR  
DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE  
SECTION 13).

**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**

AVOID CONTACT WITH SKIN AND EYES. AVOID  
INHALATION OF VAPOUR OR MIST.  
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  
STORAGE, INCLUDING  
ANY INCOMPATIBILITIES**

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND  
WELL-VENTILATED PLACE. CONTAINERS WHICH ARE  
OPENED MUST BE CAREFULLY RESEALED AND KEPT  
UPRIGHT TO PREVENT LEAKAGE.  
STORAGE CLASS (TRGS 510): FLAMMABLE LIQUIDS

**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**

| COMPONENT      | CAS-NO. | VALUE   | CONTROL<br>PARAMETERS | BASIS  |
|----------------|---------|---|-----------------------|--|
| PROPIONIC ACID | 79-09-4 | TWA   | 10 PPM                | USA. ACGIH<br>THRESHOLD<br>LIMIT VALUES<br>(TLV) |
|                | REMARKS | UPPER RESPIRATORY TRACT IRRITATION<br>EYE IRRITATION<br>SKIN IRRITATION |                       |  |
|                |         | TWA   | 10.000000 PPM         | USA. ACGIH<br>THRESHOLD<br>LIMIT VALUES<br>(TLV) |

|  |  |   |                                  |   |
|--|--|---|----------------------------------|---|
|  |  | UPPER RESPIRATORY TRACT IRRITATION<br>EYE IRRITATION<br>SKIN IRRITATION |                                  |   |
|  |  | TWA   | 10.000000 PPM<br>30.000000 MG/M3 | USA. NIOSH<br>RECOMMENDED<br>EXPOSURE<br>LIMITS |
|  |  | ST  | 15.000000 PPM<br>45.000000 MG/M3 | USA. NIOSH<br>RECOMMENDED<br>EXPOSURE<br>LIMITS |
|  |  | TWA   | 10 PPM<br>30 MG/M3               | USA. NIOSH<br>RECOMMENDED<br>EXPOSURE<br>LIMITS |
|  |  | ST  | 15 PPM<br>45 MG/M3               | USA. NIOSH<br>RECOMMENDED<br>EXPOSURE<br>LIMITS |

**EXPOSURE CONTROLS**

**APPROPRIATE ENGINEERING CONTROLS**

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

**PERSONAL PROTECTIVE EQUIPMENT**

**EYE/FACE PROTECTION**

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).

## **SKIN PROTECTION**

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: BUTYL-RUBBER  
MINIMUM LAYER THICKNESS: 0.3 MM  
BREAK THROUGH TIME: 480 MIN  
MATERIAL TESTED: BUTOJECT (KCL 897 , SIZE M)

### **SPLASH CONTACT**

MATERIAL: NATURE LATEX/CHLOROPRENE  
MINIMUM LAYER THICKNESS: 0.6 MM  
BREAK THROUGH TIME: 41 MIN  
MATERIAL TESTED: LAPREN (KCL 706 , 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, FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING., THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

## **RESPIRATORY PROTECTION**

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE RESPIRATOR WITH MULTI- PURPOSE COMBINATION (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).

**CONTROL OF ENVIRONMENTAL EXPOSURE**

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. 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                                   | Colorless liquid  |
| ODOUR  | NO DATA AVAILABLE   |
| ODOUR THRESHOLD                              | NO DATA AVAILABLE   |
| PH   | 2.5 AT 100 G/L AT 20 C  |
| MELTING POINT/FREEZING POINT                 |   |
| INITIAL BOILING POINT AND BOILING RANGE      | 141 °C (Approx.)  |
| FLASH POINT                                  |   |
| EVAPORATION RATE                             | NO DATA AVAILABLE   |
| FLAMMABILITY (SOLID, GAS)                    | NO DATA AVAILABLE   |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | UPPER EXPLOSION LIMIT: 12.1 %(V)<br>LOWER EXPLOSION LIMIT: 2.9 %(V) |
| VAPOUR PRESSURE                              | 3.2 HPA (2.4 MMHG) AT 20 C  |
| VAPOUR DENSITY                               | 2.56 - (AIR = 1.0)  |
| RELATIVE DENSITY                             | 0.99  |
| WATER SOLUBILITY                             | INSOLUBLE   |
| PARTITION COEFFICIENT: N- OCTANOL/WATER      | LOG POW: 0.25   |
| AUTO-IGNITION TEMPERATURE                    | 440 C AT 1,013 HPA (760 MMHG)                                       |
| DECOMPOSITION TEMPERATURE                    | NO DATA AVAILABLE   |
| VISCOSITY                                    | NO DATA AVAILABLE   |
| EXPLOSIVE PROPERTIES                         | NO DATA AVAILABLE   |
| OXIDIZING PROPERTIES                         | NO DATA AVAILABLE   |

**OTHER SAFETY INFORMATION**

|                         |                    |
|-------------------------|--------------------|
| SURFACE TENSION         | 27.21 MN/M AT 15 C |
| DISSOCIATION CONSTANT   | 4.88               |
| RELATIVE VAPOUR DENSITY | 2.56 - (AIR = 1.0) |

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**SECTION 10. STABILITY AND REACTIVITY**

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|                   |                   |
|-------------------|-------------------|
| <b>REACTIVITY</b> | NO DATA AVAILABLE |
|-------------------|-------------------|



|   |   |
|---|---|
| <b>CHEMICAL STABILITY</b>                 | STABLE UNDER RECOMMENDED STORAGE CONDITIONS.  |
| <b>POSSIBILITY OF HAZARDOUS REACTIONS</b> | NO DATA AVAILABLE   |
| <b>CONDITIONS TO AVOID</b>                | HEAT, FLAMES AND SPARKS.  |
| <b>INCOMPATIBLE MATERIALS</b>             | STRONG OXIDIZING AGENTS   |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>   | OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE<br>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 - MALE AND FEMALE - 3,455.1 MG/KG<br>(OECD TEST GUIDELINE 401)<br>LC50 INHALATION - RAT - MALE AND FEMALE - 4 H - > 20 MG/L<br>(OECD TEST GUIDELINE 403)<br>LD50 DERMAL - RAT - FEMALE - 3,235 MG/KG<br>(OECD TEST GUIDELINE 402)<br>LD50 INTRAVENOUS - MOUSE - 625 MG/KG<br>REMARKS: BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD.<br>LD50 PARENTERAL - RAT - 3,500 MG/KG |
| <b>SKIN CORROSION/IRRITATION</b>         | SKIN - RABBIT<br>RESULT: CAUSES BURNS.   |
| <b>SERIOUS EYE DAMAGE/EYE IRRITATION</b> | EYES - RABBIT<br>RESULT: RISK OF SERIOUS DAMAGE TO EYES.   |
| <b>RESPIRATORY OR SKIN SENSITISATION</b> | NO DATA AVAILABLE  |
| <b>GERM CELL MUTAGENICITY</b>            | REVERSE MUTATION ASSAY S. TYPHIMURIUM<br>RESULT: NEGATIVE<br>OECD TEST GUIDELINE 474<br>HAMSTER - MALE AND FEMALE<br>RESULT: NEGATIVE  |
| <b>CARCINOGENICITY IARC:</b>             | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS  |

|   |   |
|---|---|
| ACGIH:  | IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.<br>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 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.   |
| <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>                             | REPEATED DOSE TOXICITY - MOUSE - FEMALE - LOWEST OBSERVED ADVERSE EFFECT LEVEL - 136.9 MG/KG<br>RTECS: UE595000<br>MAY CAUSE AN ASTHMATIC-LIKE BRONCHITIS., NAUSEA, DIZZINESS, HEADACHE, BLOOD DISORDERS, MAY CAUSE IRRITATION TO EYES AND RESPIRATORY PASSAGES TO WORKERS BRIEFLY EXPOSED TO HIGH CONCENTRATIONS<br>LIVER - IRREGULARITIES - BASED ON HUMAN EVIDENCE |

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## SECTION 12. ECOLOGICAL INFORMATION

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|                                      |  |
|--------------------------------------|--|
| <b>TOXICITY</b>                      | NO DATA AVAILABLE  |
| <b>PERSISTENCE AND DEGRADABILITY</b> |  |
| BIODEGRADABILITY                     | AEROBIC - EXPOSURE TIME 20 D<br>RESULT: 93 % - READILY BIODEGRADABLE |
| <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>                | 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. |
| <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: PROPIONIC ACID  
UN NUMBER: 3463  
CLASS: 8 (3)  
PACKING GROUP: II  
REPORTABLE QUANTITY (RQ): 5000 LBS  
POISON INHALATION HAZARD: NO

**IMDG**  
PROPER SHIPPING NAME: PROPIONIC ACID  
UN NUMBER: 3463  
CLASS: 8 (3)  
PACKING GROUP: II  
EMS-NO: F-E, S-C

**IATA**  
PROPER SHIPPING NAME: PROPIONIC ACID  
UN NUMBER: 3463

CLASS: 8 (3)  
PACKING GROUP: II

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**SECTION 15. REGULATORY INFORMATION**

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**SARA 302 COMPONENTS** SARA 302: NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

**SARA 313 COMPONENTS** SARA 313: 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** FIRE HAZARD, ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS**

|                | CAS-NO. | REVISION DATE |
|----------------|---------|---------------|
| Propionic acid | 79-09-4 | 3/1/2007      |

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS**

|                | CAS-NO. | REVISION DATE |
|----------------|---------|---------------|
| Propionic acid | 79-09-4 | 3/1/2007      |

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

|                | CAS-NO. | REVISION DATE |
|----------------|---------|---------------|
| Propionic acid | 79-09-4 | 3/1/2007      |

**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.

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**SECTION 16. OTHER INFORMATION**

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

|            |  |
|------------|--|
| EYE DAM.   | SERIOUS EYE DAMAGE                               |
| FLAM. LIQ. | FLAMMABLE LIQUIDS                                |
| H226       | FLAMMABLE LIQUID AND VAPOUR.                     |
| H314       | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.         |
| H318       | CAUSES SERIOUS EYE DAMAGE.                       |
| H335       | MAY CAUSE RESPIRATORY IRRITATION.                |
| SKIN CORR. | SKIN CORROSION                                   |
| STOT SE    | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE |

**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 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)

**IMPORTANT:**

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