# **Chem-Impex International Inc.**

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# SAFETY DATA SHEET

# SECTION 1. CHEMICAL IDENTIFICATION

| CATALOG #:                      | 47393   |
|---------------------------------|---|
| NAME:                           | 2,4-Hexadienal (mixture of isomers)                 |
| SYNONYMS:                       |   |
| 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

#### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)** FLAMMABLE LIQUIDS (CATEGORY 4), H227 ACUTE TOXICITY, ORAL (CATEGORY 3), H301 ACUTE TOXICITY, DERMAL (CATEGORY 3), H311 SKIN CORROSION/IRRITATION (CATEGORY 1C), H314

#### SKIN SENSITIZATION (CATEGORY 1), H317 EYE DAMAGE/IRRITATION (CATEGORY 1), H318 CARCINOGENICITY (CATEGORY 2), H351

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)

| H227        | COMBUSTIBLE LIQUID.                        |
|-------------|--|
| H301 + H311 | TOXIC IF SWALLOWED OR IN CONTACT WITH SKIN |
| H314        | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.   |
| H317        | MAY CAUSE AN ALLERGIC SKIN REACTION.       |
| H351        | SUSPECTED OF CAUSING CANCER.               |

#### PRECAUTIONARY STATEMENT(S)

| FRECAUTIONART STA    | ALEWIEN I (S)                                       |
|----------------------|---|
| P201                 | OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.             |
| P202                 | DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE     |
|                      | BEEN READ AND UNDERSTOOD.                           |
| P210                 | KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT          |
|                      | SURFACES. NO SMOKING.                               |
| P260                 | DO NOT BREATHE DUSTS OR MIST                        |
| P264                 | WASH SKIN THOROUGHLY AFTER HANDLING.                |
| P270                 | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS          |
|                      | PRODUCT.  |
| P272                 | CONTAMINATED WORK CLOTHING SHOULD NOT BE            |
|                      | ALLOWED OUT OF THE WORKPLACE.                       |
| 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): REMOVE/ TAKE OFF IMMEDIATELY  |
|                      | ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/   |
|                      | SHOWER.   |
| P304 + P340 + P311   | IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP     |
|                      | COMFORTABLE FOR BREATHING. CALL A POISON            |
|                      | CENTER/DOCTOR.                                      |
| P305 + P351 + P338 + | IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL |
| P310                 | MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND      |
|                      | EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A    |
|                      | POISON CENTER/DOCTOR.                               |
| P308 + P313          | IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/        |
|                      | ATTENTION.  |
| P363                 | WASH CONTAMINATED CLOTHING BEFORE REUSE.            |
| P370 + P378          | IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR      |
|                      | ALCOHOL-RESISTANT FOAM TO EXTINGUISH.               |
| 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.                               |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: C<sub>6</sub>H<sub>8</sub>O MW: 96.13

CAS-NO. 80466-34-8

PURITY:  $\geq 97\%$  (GC, total of isomers)

#### HAZARDOUS COMPONENTS

| COMPONENT               | CLASSIFICATION | CONCENTRATION |
|-------------------------|----------------|---------------|
| 2,4-Hexadienal (mixture | of isomers)    |               |
|                         | -              | -             |

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<br>SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT<br>OF DANGEROUS AREA.                                      |
|-----------------|---|
| IF INHALED      | REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A<br>POSITION COMFORTABLE FOR BREATHING.<br>IMMEDIATELY CALL A POISON CENTER OR<br>DOCTOR/PHYSICIAN. |
| IN CASE OF SKIN | REMOVE/TAKE OFF IMMEDIATELY ALL   |
| CONTACT         | CONTAMINATED CLOTHING. GENTLY WASH WITH   |
|                 | PLENTY OF SOAP AND WATER. IMMEDIATELY CALL A  |
|                 | POISON CENTER OR DOCTOR/PHYSICIAN.  |
| IN CASE OF EYE  | RINSE CAUTIOUSLY WITH WATER FOR SEVERAL   |
| CONTACT         | MINUTES. REMOVE CONTACT LENSES, IF PRESENT  |
|                 | AND EASY TO DO. CONTINUE RINSING.IMMEDIATELY  |
|                 | CALL A POISON CENTER OR DOCTOR/PHYSICIAN.   |

| IF SWALLOWED          | IMMEDIATELY CALL A POISON CENTER OR<br>DOCTOR/PHYSICIAN. RINSE MOUTH. DO NOT INDUCE<br>VOMITING. |
|-----------------------|--|
| MOST IMPORTANT        | ACUTE: REDNESS.  |
| SYMPTOMS AND          | DELAYED: MAY CAUSE SKIN SENSITIZATION.   |
| 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     | NO DATA AVAILABLE  |
| IMMEDIATE MEDICAL     |  |
| ATTENTION AND SPECIAL |  |
| TREATMENT NEEDED      |  |

# SECTION 5. FIRE AND EXPLOSION DATA

## **EXTINGUISHING MEDIA**

| SUITABLE<br>EXTINGUISHING MEDIA                             | SUITABLE EXTINGUISHING MEDIA:<br>DRY CHEMICAL, FOAM, CARBON DIOXIDE.       |
|---|--|
|   | UNSUITABLE EXTINGUISHING MEDIA:<br>WATER (IT MAY SCATTER AND SPREAD FIRE.) |
| SPECIAL HAZARDS<br>ARISING FROM THE<br>SUBSTANCE OR MIXTURE | CARBON OXIDES  |
| ADVICE FOR<br>FIREFIGHTERS                                  | WEAR SELF-CONTAINED BREATHING APPARATUS IF POSSIBLE.                       |
| FURTHER INFORMATION   | CLOSED CONTAINERS MAY EXPLODE FROM HEAT OF A FIRE.                         |

# SECTION 6. ACCIDENTAL RELEASE MEASURES

| PERSONAL<br>PRECAUTIONS,<br>PROTECTIVE<br>EQUIPMENT AND<br>EMERGENCY<br>PROCEDURES | USE PERSONAL PROTECTIVE EQUIPMENT. KEEP<br>PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK.<br>ENSURE ADEQUATE VENTILATION. ENTRY TO NON-<br>INVOLVED PERSONNEL SHOULD BE CONTROLLED<br>AROUND THE LEAKAGE AREA BY ROPING OFF, ETC. |
|--|---|
| ENVIRONMENTAL<br>PRECAUTIONS   | PREVENT PRODUCT FROM ENTERING DRAINS.   |

| METHODS AND<br>MATERIALS FOR<br>CONTAINMENT AND<br>CLEANING UP | ABSORB SPILLED MATERIAL IN A SUITABLE<br>ABSORBENT (E.G. RAG, DRY SAND, EARTH, SAW-DUST).<br>IN CASE OF LARGE AMOUNT OF SPILLAGE, CONTAIN A<br>SPILL BY BUNDING. ADHERED OR COLLECTED<br>MATERIAL SHOULD BE PROMPTLY DISPOSED OF, IN<br>ACCORDANCE WITH APPROPRIATE LAWS AND<br>REGULATIONS. |
|--|--|
| REFERENCE TO OTHER<br>SECTIONS                                 | REMOVE ALL SOURCES OF IGNITION. FIRE-<br>EXTINGUISHING DEVICES SHOULD BE PREPARED IN<br>CASE OF A FIRE. USE SPARK-PROOF TOOLS AND<br>EXPLOSION-PROOF EQUIPMENT.<br>FOR DISPOSAL SEE SECTION 13.  |

## SECTION 7. HANDLING AND STORAGE

| PRECAUTIONS FOR SAFE<br>HANDLING                                   | HANDLING IS PERFORMED IN A WELL VENTILATED<br>PLACE. WEAR SUITABLE PROTECTIVE EQUIPMENT.<br>PREVENT DISPERSION OF DUST. WASH HANDS AND<br>FACE THOROUGHLY AFTER HANDLING.<br>USE A CLOSED SYSTEM IF POSSIBLE. USE A LOCAL<br>EXHAUST IF DUST OR AEROSOL WILL BE GENERATED.<br>AVOID ALL CONTACT. |
|--|--|
| CONDITIONS FOR SAFE<br>STORAGE, INCLUDING<br>ANY INCOMPATIBILITIES | KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL<br>AND DARK PLACE.<br>STORE UNDER INERT GAS. STORE LOCKED UP.<br>STORE AWAY FROM INCOMPATIBLE MATERIALS SUCH<br>AS OXIDIZING AGENTS.<br>AIR-SENSITIVE   |
| SPECIFIC END USE(S)  | Store at 2 - 8 °C, under inert gas<br>APART FROM THE USES MENTIONED IN SECTION 1.2 NO<br>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 | FOLLOW SAFE INDUSTRIAL                         |
|-------------|--|
| ENGINEERING | ENGINEERING/LABORATORY PRACTICES WHEN          |
| CONTROLS    | HANDLING ANY CHEMICAL. INSTALL A CLOSED SYSTEM |
|             | OR LOCAL EXHAUST. ALSO INSTALL SAFETY SHOWER   |
|             | AND EYE BATH.                                  |

#### PERSONAL PROTECTIVE EQUIPMENT

- **EYE/FACE PROTECTION** FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR 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<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.
- BODY PROTECTIONIMPERVIOUS CLOTHING, FLAME RETARDANT<br/>ANTISTATIC PROTECTIVE CLOTHING. THE TYPE OF<br/>PROTECTIVE EQUIPMENT MUST BE SELECTED<br/>ACCORDING TO THE CONCENTRATION AND AMOUNT OF<br/>THE DANGEROUS SUBSTANCE AT THE SPECIFIC<br/>WORKPLACE.
- RESPIRATORYHALF OR FULL FACEPIECE RESPIRATOR, SELF-<br/>CONTAINED BREATHING APPARATUS(SCBA), SUPPLIED<br/>AIR RESPIRATOR, ETC. USE RESPIRATORS APPROVED<br/>UNDER APPROPRIATE GOVERNMENT STANDARDS AND<br/>FOLLOW LOCAL AND NATIONAL REGULATIONS.CONTROL OFPREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO

ENVIRONMENTALDO SO. DO NOT LET PRODUCT ENTER DRAINS.EXPOSUREDO SO. DO NOT LET PRODUCT ENTER DRAINS.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES |  |  |
|---|--|--|
|   |  |  |
|   |  |  |
|   |  |  |
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|   |  |  |
|   |  |  |
|   |  |  |
|   |  |  |
|   |  |  |

| 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       | 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 INFORMATION** NO DATA AVAILABLE

# SECTION 10. STABILITY AND REACTIVITY

| REACTIVITY                               | NO DATA AVAILABLE                        |
|--|--|
| CHEMICAL STABILITY                       | STABLE UNDER PROPER CONDITIONS.          |
| POSSIBILITY OF<br>HAZARDOUS<br>REACTIONS | NO SPECIAL REACTIVITY HAS BEEN REPORTED. |
| CONDITIONS TO AVOID                      | OPEN FLAME                               |
| INCOMPATIBLE<br>MATERIALS                | OXIDIZING AGENTS                         |
| HAZARDOUS<br>DECOMPOSITION<br>PRODUCTS   | CARBON DIOXIDE, CARBON MONOXIDE          |

# SECTION 11. TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

| ACUTE TOXICITY   | ORL-RAT LD50:300 MG/KG   |
|--|--|
|  | IHL-RAT LCLO:2000 PPM/4H   |
|  | SKN-RBT LD50:270 UL/KG   |
|  | NO DATA AVAILABLE  |
| SKIN<br>CORROSION/IRRITATION                             | NO DATA AVAILABLE  |
| SERIOUS EYE<br>DAMAGE/EYE IRRITATION                     | NO DATA AVAILABLE  |
| RESPIRATORY OR SKIN<br>SENSITISATION                     | NO DATA AVAILABLE  |
| GERM CELL<br>MUTAGENICITY                                | NO DATA AVAILABLE  |
| <b>CARCINOGENICITY</b><br>IARC:<br>NTP:                  | GROUP 2B (POSSIBLY CARCINOGENIC TO HUMANS) .<br>NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A KNOWN OR ANTICIPATED |
| OSHA:  | CARCINOGEN BY NTP.<br>NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON<br>OSHA S LIST OF REGULATED CARCINOGENS.                       |
| REPRODUCTIVE TOXICITY                                    | NO DATA AVAILABLE  |
| SPECIFIC TARGET ORGAN<br>TOXICITY - SINGLE<br>EXPOSURE   | NO DATA AVAILABLE  |
| SPECIFIC TARGET ORGAN<br>TOXICITY - REPEATED<br>EXPOSURE | NO DATA AVAILABLE  |
| ASPIRATION HAZARD  | NO DATA AVAILABLE  |
| ADDITIONAL<br>INFORMATION                                | RTECS: MM1150500   |
| HAF ORIVIALION   | TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL,<br>PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE<br>NOT BEEN THOROUGHLY INVESTIGATED.  |

# SECTION 12. ECOLOGICAL INFORMATION

| TOXICITY                              | NO DATA AVAILABLE |
|---------------------------------------|-------------------|
| PERSISTENCE AND<br>DEGRADABILITY      | NO DATA AVAILABLE |
| BIOACCUMULATIVE<br>POTENTIAL          | NO DATA AVAILABLE |
| MOBILITY IN SOIL                      | NO DATA AVAILABLE |
| RESULTS OF PBT AND VPVB<br>ASSESSMENT | NO DATA AVAILABLE |
| OTHER ADVERSE EFFECTS                 | NO DATA AVAILABLE |

# SECTION 13. DISPOSAL CONSIDERATIONS

# WASTE TREATMENT METHODS

| PRODUCT                   | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO<br>A LICENSED DISPOSAL COMPANY. BURN IN A CHEMICAL<br>INCINERATOR EQUIPPED WITH AN AFTERBURNER AND<br>SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS<br>THIS MATERIAL IS HIGHLY FLAMMABLE. CONTACT A<br>LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE<br>TO DISPOSE OF THIS MATERIAL. |
|---------------------------|--|
| CONTAMINATED<br>PACKAGING | DISPOSE OF AS UNUSED PRODUCT.  |

# SECTION 14. TRANSPORT INFORMATION

| <b>DOT (US)</b><br>PROPER SHIPPING NAME: | CORROSIVE LIQUID, TOXIC, N.O.S (2,4-Hexadienal (mixture of isomers)) |
|--|--|
| UN NUMBER:                               | 2922   |
| CLASS:                                   | 8 (6.1)  |
| PACKING GROUP:                           | III  |
| IMDG                                     |  |
| PROPER SHIPPING NAME:                    | CORROSIVE LIQUID, TOXIC, N.O.S (2,4-Hexadienal (mixture of isomers)) |
| UN NUMBER:                               | 2922   |
| CLASS:                                   | 8 (6.1)  |
| PACKING GROUP:                           | III  |
| EMS NUMBER:                              | F-A, S-B   |

| IATA                  |  |
|-----------------------|--|
| PROPER SHIPPING NAME: | CORROSIVE LIQUID, TOXIC, N.O.S (2,4-Hexadienal |
|                       | (mixture of isomers))                          |
| UN NUMBER:            | 2922   |
| CLASS:                | 8 (6.1)  |
| PACKING GROUP:        | III  |

#### SECTION 15. REGULATORY INFORMATION

| SARA 302 COMPONENTS | NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE<br>REPORTING REQUIREMENTS OF SARA TITLE III, SECTION<br>302.  |
|---------------------|--|
| SARA 313 COMPONENTS | THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL<br>COMPONENTS WITH KNOWN CAS NUMBERS THAT<br>EXCEED THE THRESHOLD (DE MINIMIS) REPORTING<br>LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313. |
| MASSACHUSETTS RIGHT | TO KNOW COMPONENTS   |

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

#### PENNSYLVANIA RIGHT TO KNOW COMPONENTS

8

| 2,4-Hexadienal (mixture of |  |
|----------------------------|--|
| isomers)                   |  |

CAS-NO. 80466-34**REVISION DATE** 

#### NEW JERSEY RIGHT TO KNOW COMPONENTS

2,4-Hexadienal (mixture of 80466-34isomers) 8 **REVISION DATE** 

# SECTION 16. OTHER INFORMATION

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

| H227        | COMBUSTIBLE LIQUID.                        |
|-------------|--|
| H301 + H311 | TOXIC IF SWALLOWED OR IN CONTACT WITH SKIN |
| H314        | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.   |
| H317        | MAY CAUSE AN ALLERGIC SKIN REACTION.       |
| H351        | SUSPECTED OF CAUSING 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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