

# *Chem-Impex International Inc.*

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## SAFETY DATA SHEET

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### SECTION 1. CHEMICAL IDENTIFICATION

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CATALOG #: 34669

NAME: 3,3,5-Trimethylcyclohexanol acetate

SYNONYMS:

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

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#### 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 5), H303

HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD (CATEGORY 3), H402

HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM HAZARD (CATEGORY 3), H412

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

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

SIGNAL WORD            WARNING

**HAZARD STATEMENT(S)**

H227 COMBUSTIBLE LIQUID.  
H303 MAY BE HARMFUL IF SWALLOWED.  
H402 HARMFUL TO AQUATIC LIFE.  
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

**PRECAUTIONARY STATEMENT(S)**

P210 KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING.  
P273 AVOID RELEASE TO THE ENVIRONMENT.  
P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.  
  
P312 CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.  
P370 + P378 IN CASE OF FIRE: USE APPROPRIATE MEDIA TO EXTINGUISH  
P403 STORE IN A WELL-VENTILATED PLACE  
P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS** NONE

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

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MF:  $C_{11}H_{20}O_2$   
MW: 184.28  
CAS-NO. 67859-96-5  
PURITY: 98 - 100% (GC)

**HAZARDOUS COMPONENTS**

| COMPONENT                           | CLASSIFICATION | CONCENTRATION |
|-------------------------------------|----------------|---------------|
| 3,3,5-Trimethylcyclohexanol acetate | -              | -             |

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 BREATHING IS DIFFICULT, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. FOR BREATHING DIFFICULTIES, OXYGEN MAY BE NECESSARY. CALL A PHYSICIAN IF SYMPTOMS DEVELOP OR PERSIST.  |
| IN CASE OF SKIN CONTACT   | TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS. WASH SKIN THOROUGHLY WITH SOAP AND WATER FOR SEVERAL MINUTES.  |
| IN CASE OF EYE CONTACT  | REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS. PROMPTLY WASH EYES WITH PLENTY OF WATER WHILE LIFTING THE EYE LIDS.  |
| IF SWALLOWED  | CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. IF SWALLOWED, RINSE MOUTH WITH WATER (ONLY IF THE PERSON IS CONSCIOUS). DO NOT INDUCE VOMITING. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT STOMACH VOMIT DOESN'T ENTER THE LUNGS. |
| <b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED</b>                | DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.  |
| <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**

|                              |  |
|------------------------------|--|
| SUITABLE EXTINGUISHING MEDIA | SUITABLE EXTINGUISHING MEDIA<br>WATER SPRAY, FOG, CO2, DRY CHEMICAL, OR ALCOHOL RESISTANT FOAM.      |
|                              | UNSUITABLE EXTINGUISHING MEDIA<br>DO NOT USE A SOLID WATER STREAM AS IT MAY SCATTER AND SPREAD FIRE. |

|   |   |
|---|---|
| SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE | FIRE MAY PRODUCE IRRITATING, CORROSIVE AND/OR TOXIC GASES.  |
| ADVICE FOR FIREFIGHTERS                               | WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. KEEP RUN-OFF WATER OUT OF SEWERS AND WATER SOURCES. DIKE FOR WATER CONTROL. |
| FURTHER INFORMATION                                   | USE WATER SPRAY TO COOL UNOPENED CONTAINERS. STATIC CHARGES GENERATED BY EMPTYING PACKAGE IN OR NEAR FLAMMABLE VAPOR MAY CAUSE FLASH FIRE.  |

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

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|   |   |
|---|---|
| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES | 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.<br><br>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               | CONTAIN SPILLAGE, AND THEN COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY 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.<br><br>FOR PRECAUTIONS SEE SECTION 2.2. |
| CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES | KEEP CONTAINER CLOSED. HANDLE CONTAINERS WITH CARE. OPEN SLOWLY IN ORDER TO CONTROL POSSIBLE PRESSURE RELEASE. STORE IN A COOL, WELL-VENTILATED AREA.<br><br>Store at RT   |
| 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 ENGINEERING CONTROLS | USE EXPLOSION-PROOF VENTILATION EQUIPMENT TO STAY BELOW EXPOSURE LIMITS. ADEQUATE VENTILATION SHOULD BE PROVIDED SO THAT EXPOSURE LIMITS ARE NOT EXCEEDED. |
|----------------------------------|--|

### **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 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. |
|-----------------|--|

|                                   |  |
|-----------------------------------|--|
| 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 MULTIPURPOSE 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. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.   |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| APPEARANCE                                   | Clear, colorless to pale yellow liquid |
| ODOUR  | CHARACTERISTIC                         |
| ODOUR THRESHOLD                              | NO DATA AVAILABLE                      |
| PH   | NO DATA AVAILABLE                      |
| MELTING POINT/FREEZING POINT                 |  |
| BOILING POINT                                | 82 - 83 °C at 2 mmHg                   |
| FLASH POINT                                  | 77 °C                                  |
| EVAPOURATION RATE                            | NO DATA AVAILABLE                      |
| FLAMMABILITY (SOLID, GAS)                    | NO DATA AVAILABLE                      |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | NO DATA AVAILABLE                      |
| VAPOUR PRESSURE                              | 0.2 MM HG AT 25 °C                     |
| VAPOUR DENSITY                               | 5.8                                    |
| RELATIVE DENSITY                             |  |
| WATER SOLUBILITY                             | INSOLUBLE                              |
| 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    NOT EXPLOSIVE  
OXIDIZING PROPERTIES    NOT OXIDIZING

**OTHER SAFETY INFORMATION**

SPECIFIC GRAVITY            0.92 AT D20/4

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**SECTION 10.    STABILITY AND REACTIVITY**

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|                                    |  |
|------------------------------------|--|
| REACTIVITY                         | THE PRODUCT IS STABLE AND NON-REACTIVE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TRANSPORT   |
| CHEMICAL STABILITY                 | STABLE UNDER RECOMMENDED STORAGE CONDITIONS.   |
| POSSIBILITY OF HAZARDOUS REACTIONS | NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.  |
| CONDITIONS TO AVOID                | AVOID HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. AVOID TEMPERATURES EXCEEDING THE FLASH POINT. CONTACT WITH INCOMPATIBLE MATERIALS. |
| INCOMPATIBLE MATERIALS             | STRONG OXIDIZING AGENTS  |
| HAZARDOUS DECOMPOSITION PRODUCTS   | NO HAZARDOUS DECOMPOSITION PRODUCTS IF STORED AND HANDLED AS INDICATED.<br><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**

|                           |  |
|---------------------------|--|
| ACUTE TOXICITY            | LD50 ORAL - RAT - > 2000 MG/KG<br><br>INHALATION: NO DATA AVAILABLE<br><br>DERMAL: NO DATA AVAILABLE<br><br>NO DATA AVAILABLE              |
| SKIN CORROSION/IRRITATION | SPECIES: RABBIT<br>EXPOSURE TIME: 4 H<br>METHOD: OECD TEST GUIDELINE 404<br>RESULT: NO SKIN IRRITATION<br>CONCENTRATION: 100 %<br>GLP: YES |

|  |  |
|--|--|
| SERIOUS EYE<br>DAMAGE/EYE IRRITATION                     | SPECIES: BOVINE CORNEA<br>RESULT: NO EYE IRRITATION<br>METHOD: OECD TEST GUIDELINE 437<br>GLP: YES   |
| RESPIRATORY OR SKIN<br>SENSITISATION                     | TEST TYPE: MAXIMISATION TEST<br>SPECIES: GUINEA PIG<br>METHOD: OECD TEST GUIDELINE 406<br>RESULT: NO SENSITIZING EFFECT.<br>CONCENTRATION: 100 %<br>GLP: YES       |
| GERM CELL<br>MUTAGENICITY                                | GENOTOXICITY IN VITRO : TEST TYPE: AMES TEST<br>METABOLIC ACTIVATION: WITH AND WITHOUT METABOLIC<br>ACTIVATION<br>METHOD: OECD 471<br>RESULT: NEGATIVE<br>GLP: YES |
| CARCINOGENICITY<br>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.   |
| ACGIH:   | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A<br>CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.                 |
| 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 IDENTIFIED AS A<br>CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.                  |
| 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  
INFORMATION

DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY  
IRRITATION. MAY BE HARMFUL IF SWALLOWED.

RTECS: NOT AVAILABLE

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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**TOXICITY** HARMFUL TO AQUATIC LIFE WITH LONG LASTING  
EFFECTS.

| PRODUCT                             |       | SPECIES   | TEST RESULTS        |
|-------------------------------------|-------|---|---------------------|
| 3,3,5-Trimethylcyclohexanol acetate |       |   |                     |
| ACUTE                               |       |   |                     |
| ALGAE                               | ERC50 | GREEN ALGAE<br>(PSEUDOKIRCHNERIELLA<br>SUBCAPITATA) | 15.7 MG/L, 72 HOURS |
|                                     | NOEC  | GREEN ALGAE<br>(PSEUDOKIRCHNERIELLA<br>SUBCAPITATA) | 1.8 MG/L, 72 HOURS  |
| AQUATIC                             |       |   |                     |
| ACUTE                               |       |   |                     |
| CRUSTACEA                           | EC10  | DAPHNIA MAGNA                                       | 20.1 MG/L, 48 HOURS |
|                                     | EC50  | DAPHNIA MAGNA                                       | 22 MG/L, 48 HOURS   |

### PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY TEST TYPE: HEADSPACE TEST  
RESULT: NOT READILY BIODEGRADABLE (ONLY 10 DAY  
WINDOW FAILED)  
BIODEGRADATION: 62%  
EXPOSURE TIME: 28 D  
METHOD: OECD 310  
GLP: YES

**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** NO DATA AVAILABLE

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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**WASTE TREATMENT METHODS**

|                        |  |
|------------------------|--|
| PRODUCT                | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. |
| CONTAMINATED PACKAGING | DISPOSE OF AS UNUSED PRODUCT.  |

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**SECTION 14. TRANSPORT INFORMATION**

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|                           |  |
|---------------------------|--|
| <b>DOT (US)</b>           |  |
| PROPER SHIPPING NAME:     | COMBUSTIBLE LIQUID, N.O.S. (3,3,5-TRIMETHYLCYCLOHEXYL ACETATE) |
| NA-NUMBER:                | 1993   |
| CLASS:                    | NONE   |
| PACKING GROUP:            | III  |
| REPORTABLE QUANTITY (RQ): | 150  |
| MARINE POLLUTANT          | NO   |
| <b>IMDG</b>               | NOT DANGEROUS GOODS  |
| <b>IATA</b>               | NOT DANGEROUS GOODS  |

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**SECTION 15. REGULATORY INFORMATION**

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|                             |   |
|-----------------------------|---|
| <b>SARA 302 COMPONENTS</b>  | NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.   |
| <b>SARA 313 COMPONENTS</b>  | 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. |
| <b>SARA 311/312 HAZARDS</b> | YES   |

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS**

|                                     | CAS #      | REVISION DATE |
|-------------------------------------|------------|---------------|
| 3,3,5-Trimethylcyclohexanol acetate | 67859-96-5 |               |

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS**

|                                     | CAS #      | REVISION DATE |
|-------------------------------------|------------|---------------|
| 3,3,5-Trimethylcyclohexanol acetate | 67859-96-5 |               |

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

|                                     | CAS #      | REVISION DATE |
|-------------------------------------|------------|---------------|
| 3,3,5-Trimethylcyclohexanol acetate | 67859-96-5 |               |

**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.**

|      |  |
|------|--|
| H227 | COMBUSTIBLE LIQUID.                                |
| H303 | MAY BE HARMFUL IF SWALLOWED.                       |
| H402 | HARMFUL TO AQUATIC LIFE.                           |
| H412 | HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. |

**HMIS RATING**

|                        |   |
|------------------------|---|
| HEALTH HAZARD:         | 1 |
| CHRONIC HEALTH HAZARD: |   |
| FLAMMABILITY:          | 2 |
| PHYSICAL HAZARD        | 0 |

**NFPA RATING**

|                    |   |
|--------------------|---|
| HEALTH HAZARD:     | 1 |
| 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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