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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 33991

NAME: Citronellyl acetate

SYNONYMS: 3,7-Dimethyloct-6-en-1-yl acetate

3,7-Dimethyloct-6-en-1-yl acetate

24 HOUR EMERGENCY

TELEPHONE:

(800) 535-5053(USA)

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)

SKIN CORROSION/IRRITATION (CATEGORY 2) AQUATIC HAZARD (ACUTE) (CATEGORY 2) AQUATIC HAZARD (LONG-TERM) (CATEGORY 2) FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM

!> **&**

SIGNAL WORD WARNING

HAZARD STATEMENT(S)

H315 CAUSES SKIN IRRITATION H401 TOXIC TO AQUATIC LIFE

H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENT(S)

P264 WASH SKIN THOROUGHLY AFTER HANDLING. P273 AVOID RELEASE TO THE ENVIRONMENT.

P280 WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE

PROTECTION.

P302+P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE OR

ATTENTION.

P337 + P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/

ATTENTION.

P362+364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT

BEFORE REUSE.

P391 COLLECT SPILLAGE.

P420 STORE AWAY FROM OTHER MATERIALS.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED

WASTE DISPOSAL PLANT.

HAZARDS NOT NONE

OTHERWISE

CLASSIFIED (HNOC) OR NOT COVERED

BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: $C_{12}H_{22}O_2$

MW: 198.30

CAS-NO. 150-84-5

PURITY: 92 - 100% (GC)

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION	
Citronellyl acetate			

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

SECTION 4. FIRST-AID MEASURES

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

SECTION 16.

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.

IF SWALLOWED NEVER GIVE ANYTHING BY MOUTH TO AN

UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER.

CONSULT A PHYSICIAN.

DO NOT INDUCE VOMITING. IF VOMITING OCCURS,

THE HEAD SHOULD BE KEPT LOW

SO THAT STOMACH VOMIT DOESN"T ENTER THE

LUNGS.

MOST IMPORTANT

SYMPTOMS AND EFFECTS, BOTH ACUTE

AND DELAYED

SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE

SECTION 2.2) AND/OR IN SECTION 11

INDICATION OF ANY IMMEDIATE MEDICAL

ATTENTION AND SPECIAL TREATMENT

NEEDED

NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

SUITABLE EXTINGUISHING MEDIA SUITABLE EXTINGUISHING MEDIA: WATER SPRAY, FOG, CO2, DRY CHEMICAL, OR ALCOHOL RESISTANT

FOAM.

UNSUITABLE EXTINGUISHING MEDIA: 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.

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. 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 PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE

HANDLING

AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS. PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED, 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.

Store at RT

SPECIFIC END USE(S)

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 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

SAFETY GLASSES WITH SIDE-SHIELDS CONFORMING TO EN166 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,

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

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. DISCHARGE INTO THE ENVIRONMENT MUST BE

AVOIDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Colorless liquid
ODOUR CHARACTERISTIC.
ODOUR THRESHOLD NO DATA AVAILABLE
PH NO DATA AVAILABLE

MELTING

POINT/FREEZING POINT

INITIAL BOILING POINT 228 - 230 °C

AND BOILING RANGE

FLASH POINT > 93 °C

EVAPORATION RATE NO DATA AVAILABLE FLAMMABILITY (SOLID, NO DATA AVAILABLE

GAS)

UPPER/LOWER NO DATA AVAILABLE

FLAMMABILITY OR EXPLOSIVE LIMITS

VAPOUR PRESSURE 0.05 MM HG AT 20 C

20 MBAR AT 121 C

VAPOUR DENSITY 6.9 RELATIVE DENSITY 0.89

WATER SOLUBILITY INSOLUBLE

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 NOT EXPLOSIVE OXIDIZING PROPERTIES NOT OXIDIZING

OTHER SAFETY INFORMATION

SPECIFIC GRAVITY 0.89 AT 25 C

SECTION 10. STABILITY AND REACTIVITY

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 NO DANGEROUS REACTION KNOWN UNDER HAZARDOUS CONDITIONS OF NORMAL USE.

REACTIONS

CONDITIONS TO AVOID AVOID TEMPERATURES EXCEEDING THE FLASH POINT.

CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE STRONG OXIDIZING AGENTS MATERIALS

HAZARDOUS NO HAZARDOUS DECOMPOSITION PRODUCTS IF

DECOMPOSITION STORED AND HANDLED AS INDICATED. **PRODUCTS**

IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN CAUSES SKIN IRRITATION.

CORROSION/IRRITATION RABBIT, PRIMARY SKIN IRRITATION - IRRITATING

HUMAN MAXIMIZATION TEST - NOT A SENSITIZER

SPECIES: RABBIT RESULT: IRRITANT.

SERIOUS EYE DIRECT CONTACT WITH EYES MAY CAUSE

DAMAGE/EYE IRRITATION TEMPORARY IRRITATION.

RABBIT, EYE IRRITATION - NONIRRITATING

SPECIES: RABBIT

RESULT: NON-IRRITANT

RESPIRATORY OR SKIN OPEN EPICUTANEOUS TEST (OET)

SENSITISATION SPECIES: GUINEA PIG

RESULT: NON-SENSITIZING.

GERM CELL NO DATA AVAILABLE

MUTAGENICITY

CARCINOGENICITY

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT

LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC. NO COMPONENT OF THIS PRODUCT PRESENT AT

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.

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

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY

TOXIC TO AQUATIC LIFE WITH LONG

LASTING EFFECTS.

HYDROLYSIS

TEST METHOD: OECD GUIDELINE 111

(ABIOTIC)

PH4

HALF-LIFE: 4,101 H (20 C)

TEST METHOD: OECD GUIDELINE 111

(ABIOTIC)

PH4

HALF-LIFE: 2,523 H (25 C)

TEST METHOD: OECD GUIDELINE 111

(ABIOTIC)

PH7

HALF-LIFE: 8,191 H (20 C)

TEST METHOD: OECD GUIDELINE 111

(ABIOTIC)

PH7

HALF-LIFE: 4,905 H (25 C)

TEST METHOD: OECD GUIDELINE 111

(ABIOTIC)

PH9

HALF-LIFE: 337 H (20 C)

TEST METHOD: OECD GUIDELINE 111

(ABIOTIC)

PH9

HALF-LIFE: 185 H (25 C)

PRODUCT		SPECIES	RESULTS			
Citronellyl acetate						
OTHER	EC20		> 1000 MG/L, 30 MIN			
AQUATIC						

FISH	LC50	ZEBRA DANIO (DANIO RERIO)	6.1 MG/L, 96
		,	HOURS

PERSISTENCE AND TEST METHOD: OECD 301B; ISO 9439;

DEGRADABILITY 92/69/EEC, C.4-C (AEROBIC),

ACTIVATED SLUDGE

METHOD OF ANALYSIS: CO2 FORMATION RELATIVE TO THE

THEORETICAL VALUE

DEGREE OF ELIMINATION: 80 - 90 %

(28 D)

EVALUATION: READILY

BIODEGRADABLE (ACCORDING TO

OECD CRITERIA).

BIOACCUMULATIVE

POTENTIAL

NO DATA AVAILABLE

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND

PBT/VPVB ASSESSMENT NOT

VPVB ASSESSMENT AVAILABLE AS CHEMICAL SAFETY

ASSESSMENT NOT REQUIRED/NOT

CONDUCTED

OTHER ADVERSE

EFFECTS

NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

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.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

LIQUID, N.O.S.(Citronellyl acetate)

UN NUMBER: 3082

CLASS: 9
PACKING GROUP: III
REPORTABLE QUANTITY 155

(RQ):

MARINE POLLUTANT YES

IMDG

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

LIQUID, N.O.S.(Citronellyl acetate)

UN NUMBER: 3082 CLASS: 9 PACKING GROUP: III MARINE POLLUTANT YES

IATA

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

LIQUID, N.O.S.(Citronellyl acetate)

UN NUMBER: 3082 CLASS: 9 PACKING GROUP: III REPORTABLE QUANTITY 155

(RQ):

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 (DEMINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313

SARA 311/312 HAZARDS SKIN CORROSION OR IRRITATION

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Citronellyl acetate 150-84-5

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Citronellyl acetate 150-84-5

NEW JERSEY RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Citronellyl acetate 150-84-5

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.

SECTION 16. OTHER INFORMATION

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

H315 CAUSES SKIN IRRITATION

H319 CAUSES SERIOUS EYE IRRITATION.

H401 TOXIC TO AQUATIC LIFE

H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING

EFFECTS

HMIS RATING

HEALTH HAZARD: 2

CHRONIC HEALTH

HAZARD:

FLAMMABILITY: 1 PHYSICAL HAZARD 0

NFPA RATING

HEALTH HAZARD: 2 FIRE HAZARD: 1 REACTIVITY HAZARD: 0

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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