

HEALTH 2 **FLAMMABILITY** 0 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product identifiers**

> Product Name 2,4-Undecadienal, Natural

Product Number 0342200 CAS-No. 13162-46-4

1.2 Product Recommended Use **Flavorings**

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992- USA

Telephone 845-496-6065 845-496-6248 Fax

Emergency Telephone Number 1-800-535-5053

International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4) Skin irritation (Category 2)

0342200 2,4-Undecadienal Nat sds.doc

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure, Respiratory system (Category 3) For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Warning	Signal Statement
Warnin	Signal Statement

Hazard Statement(s)	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.

Precautionary Statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ 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.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection

P301+P312 IF SWALLOWED: Immediately call a POISON CENTER or doctor/

physician if you feel unwell

P302+P361+ IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

P353 clothing. Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P332+P313 If skin irritation occurs: Cet medical advice/ attention

P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam

for extinction.

P403 +P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to an approved waste disposal plant

2.3 HNOC (Hazards not otherwise classified or not covered by GHS

None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonym 2,4-Undecadien-1-al

Formula C₁₁H₁₈O Molecular Weight 166.26 g/mol CAS-No 13162-46-4

Hazardous Components

Trazar a da do do importonto				
Component	Classification	Concentration		
2,4-Undecadien-1-al	Acut. Tox Oral. 4; Skin Irrit. 2; Eye	<= 100 %		
	Irrit. 2A; STOT SE 3; H302,	,		
	H315, H319, H335			

Section 4: FIRST AID MEASURES

4.1 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.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and

warm water.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person.



Rinse mouth with water.

Clothing contamination: Remove contaminated clothing and wash before reuse.

Most important symptoms and effects 4.2

both acute and delayed

See section 2.2 and or section 11

4.3 Indication of any immediate medical attention and special treatment needed.

No data available

Section 5: FIREFIGHTING MEASURES

5.1 **Extinguishing Media**

> Suitable Extinguishing Media For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon

> > dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective.

Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the

substance or mixture

Carbon oxides

Wear self contained breathing apparatus for firefighting if necessary. 5.3 Advice for fire fighters

Further information Use water spray to cool unopened containers.

Section 6: **ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas. For personal protection see section 8. **Environmental precautions** 6.2

Prevent further leakage or spillage. Discharge into the environment must be avoided. Do

not allow to enter drains or sewage system.

Methods and materials for containment 6.3

and clean 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.

HANDLING AND STORAGE Section 7:

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapor 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 Store in cool place. Keep container tightly closed in a dry and well-ventilated place. 7.2

Containers which are opened must be carefully resealed and kept upright to prevent

leakage.

Specific End use(s) Flavorings 7.3



Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands

before breaks and at the end of the workday.

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eve/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.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 56 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

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

Impervious clothing, 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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance
 b Odor
 Colorless to yellow clear oily liquid
 Green, buttery, baked fruit, spicy

c Odor Threshold No data available



d pΗ No data available Melting Point /Freezing Point No data available е Initial boiling point and boiling range 256 to 257°C Flash Point >110°C closed cup g **Evaporation Rate** No data available h Flammability (Solid, Gas) No data available Upper/lower Flammability Limit No data available Vapor pressure No data available Vapor density No data available

m Relative density @25°C 0.896 to 0.906

n Soluble in alcohol, insoluble in water

0 Partition coefficient: No data available Auto-ignition Temp. No data available р No data available Decomposition Temp, q Viscosity No data available r Explosive properties No data available s No data available Oxidizing properties t

9.2 Other Safety Information No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical Stability Stable under recommended storage conditions

10.3 Possibility of Hazardous reactions No data available

10.4 Conditions to avoidNo data available

10.5 Incompatible materials No data available

10.6 Hazardous decomposition products No data available

10.7 Further Information No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LC50-Inhalation

LD50-Oral

Rat - >5000 mg/kg

LD50-Dermal

Rabbit - 1250 - 2500 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation

Respiratory or skin sensitization No data available Germ Cell mutagenicity No data available

Carcinogenicity

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IARC No component of this product, present levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

ACGIH 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.

Reproductive toxicity
Teratogenicity
No data available
No data available
Specific target organ toxicity-single
No data available

exposure (GHS)
Specific target organ toxicity-repeated

exposures (GHS)

No data available

No data available

Aspiration Hazards No data av

Signs and Symptoms of Exposure Gastrointestinal disturbance, Nausea, Headache, Vomiting

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated

Synergistic effects No data available

RTECS: Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity
 12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No data available
 No data available
 No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required / not

conducted

12.6 Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product: According to local regulations
Packaging According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)

IMDG

Not dangerous goods

Not dangerous goods

Not dangerous goods



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 (De Minimis) reporting levels established by SARA Title III, Section

313.

SARA 311/312 Hazards No SARA Hazards

Massachusetts Right to Know

components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components 3-Ethyl-2-hydroxycyclopent-2-en-1-ol CAS# 21835-01-8 Rev. Date:

New Jersey Right to Know components 3-Ethyl-2-hydroxycyclopent-2-en-1-ol CAS# 21835-01-8 Rev. Date:

California Prop. 65 components

This product does not contain any chemical known to the State of California to cause

cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 2
Chronic Health Hazard*
Flammability 0
Physical Hazard 0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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