

HEALTH 0 FLAMMABILITY 2 REACTIVITY 0

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name 2-Undecanone (Methyl Nonyl Ketone), Natural

Product Number **0309311** CAS-No. **112-12-9** 

1.2 Product Recommended Use

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

**Flavorings** 

Washingtonville, NY 10992- USA

 Telephone
 845-496-6065

 Fax
 845-496-6248

 Emergency Telephone Number
 1-800-535-5053

International - 1-352-323-3500 collect

# Section 2: HAZARD(s) IDENTIFICATION

# 2.1 Classification of substance or mixture

GHS Classification in accordance with 29

CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1) H410

#### 2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement WARNING

Hazard Statement(s)

H227 Combustible liquid

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P273 Avoid Release to the environment

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

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

Collect spillage

P391 Store in a well ventilated place. Keep cool

P403+P235 Dispose of contents/container to an approved waste disposal plant

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P501

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

None

#### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization Natural Product
Synonyms Methyl Nonyl Ketone

 Formula
 C11H22O

 Molecular Weight
 170.29 g/mol

 CAS-No
 112-12-9

 EC-No.
 203-937-5

**Hazardous Components** 

Component Classification Concentration

Undecan 2-one Flammable Liquid (4) H227

Acute Aquatic toxicity (Category 1), H400

Aquatic Chronic (1), H410

### 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 Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a

physician

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

warm water. Consult a physician

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Consult a

physician,

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

Rinse mouth with water. Consult a physician.

Clothing contamination: Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects

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 Use water spray, alcohol resistant foam, dry chemical or carbon dioxide

**5.2 Special hazards arising from the** Carbon oxides

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substance or mixture

**5.3** Advice for fire fighters Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes

under fire conditions

**5.4 Further information** Use water spray to cool unopened containers.

#### Section 6: ACCIDENTIAL 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.

**6.2 Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or

sewage system. Discharge into the environment must be avoided.

6.3 Methods and materials for containment

and clean up

Pick up and arrange disposal without creating dust. Sweep up with broom and shovel.

Place in a suitable, closed container for disposal.

**6.4 Specific end use(s)** Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

#### Section 7: HANDLING AND STORAGE

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 buildup of electrostatic

charge.

7.2 Conditions for Safe storage Keep container tightly closed in a dry and well-ventilated place. Containers which have

been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific End use(s) Flavorings

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control

parameters

Contains no substance with workplace control parameters

8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices.

Personal protective equipment These recommendations are advisory only and must be evaluated by an industrial

hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any

specific use scenario.

Eye/face protection Wear appropriate tightly fitting safety goggles. NIOSH tested and approved.

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Skin protection Wear chemically resistant gloves of Butyl rubber. Use proper glove removal techniques

(without touching gloves outer surface) to avoid skin contact with this product. Dispose

of contaminated gloves after use. Wash and dry hands.

Body protection Complete suit protecting against chemicals, made of flame retardant antistatic material

should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing

to chemicals should be ascertained with the respective supplier

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate, use a full face

respirator with multi-purpose combination (U) 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 faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) 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

#### 9.1 Information on basic physical and chemical properties

a Appearance Colorless to slightly yellow liquid

b Odor Sweet

c Odor Threshold No data available
d pH No data available
e Melting Point /Freezing Point Melting Point -11-13°C

f **Boiling Point** 231-232°C Flash Point 88°C closed cup h **Evaporation Rate** No data available Flammability (Solid, Gas) No data available Upper/lower Flammability Limit No data available Vapor pressure <1 hPa at 20°C Vapor density 5.88 (Air=1.0) 0.822-0.832 Relative density @25°C m

n Solubility Soluble in most organic solvents

o Partition coefficient: n-octanol/water Log Pow: 4.136 – the preceding data, or interpretation of data, was determined using

QSAR (Quantitative Structure Activity Relationship) modeling.

p Auto-ignition Temp.
 q Decomposition Temp,
 r Viscosity
 s Explosive properties
 t Oxidizing properties
 No data available
 No data available
 No data available

9.2 Other Safety Information

Relative vapor density 5.88 – (Air=1.0)

#### 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 avoid** Heat, Flames and Sparks

**10.5** Incompatible materials Bases, Oxidizing agents, Strong Bases

10.6 Hazardous decomposition products10.7 Further InformationNo data availableNo data available

#### Section 11: TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

**Acute Toxicity** 

LD50-Oral No data available
LC50-Inhalation No data available
LD50-Dermal-Rabbit >5,000 mg/kg
Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitization No data available
Germ Cell mutagenicity No data available
Carcinogenicity

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.

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 Mouse: Intraperitoneal. Effects on Fertility: Female fertility index (e.g., # females

pregnant per # sperm positive females; # females pregnant per # females mated.)

Teratogenicity No data available

Specific target organ toxicity-single

exposure (GHS)

No data available

Specific target organ toxicity-repeated

exposures (GHS)

No data available

Aspiration Hazards No data available

Potential Health effects

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

not been thoroughly investigated

Synergistic effects No data available

RTECS: No data available

### Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity



To daphnia and other aquatic

invertebrates

EC50- Daphnia magna (Water Flea) 0.54 mg/l - 48h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

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

An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal. Very Toxic to aquatic life with long lasting effects.

Do not empty into drains.

#### Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product: According to local regulations
Packaging According to local regulations

#### Section 14: TRANSPORT INFORMATION

DOT (US) UN-Number 3082 Class: 9 Packing Group III

Proper Shipping Name Environmentally hazardous substance liquid, n.o.s. (Undecan-2-one)

Reportable Quantity (RQ)

Marine pollutant

Poison Inhalation Hazard

No

IMDG UN-Number 3082 Class: 9 Packing Group III EMS-No. F-A, S-F

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE.

LIQUID, N.O.S. (Undecan-2-one)

Marine Pollutant No

IATA UN-Number 3082 Class: 9 Packing Group III

Environmentally hazardous substance liquid, n.o.s. (Undecan-2-one)

Further Information E-H-S Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and

combination packagings containing inner packagings with Dangerous > 5L for

liquids or >5kg for solids.

# Section 15: REGULATORY INFORMATION

**Proper Shipping Name** 

Reach No. A registration number is not available for this substance as its uses are exempted from

registration, the annual tonnage nod not require a registration or the registration is

envisaged for a later registration deadline.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

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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 Fire Hazard, Acute Health Hazard

Massachusetts Right to Know No components are subject to the Massachusetts Right to Know Act

components

Pennsylvania Right to Know components Undecan-2-one CAS# 112-12-9 Rev. Date:

New Jersey Right to Know components Undecan-2-one CAS# 112-12-9 Rev. Date

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

#### **HMIS Rating**

Health hazard 0 Chronic Health Hazard Flammability 2 Reactive 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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