

HEALTH 1 **FLAMMABILITY** 2 REACTIVITY 0

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### **Product identifiers** 1.1

**Product Name Ketone Mixture, Natural** 

**Product Number** A-60/A70

CAS-No. 110-43-0/821-55-6/112-12-9

1.2 Product Recommended Use **Flavorings** 

1.3 Preparation Information

Aurochemicals Company

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 substance or mixture 2.1

GHS Classification in accordance with 29

CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1) H410

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

Pictogram

Signal Statement WARNING

Hazard Statement(s)

H226 Flammable liquid and vapor H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H410 Very toxic to aquatic life with long lasting effects

Harmful if swallowed or inhaled

H302+H332

Precautionary Statement(s)

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



| P233  | Keep  | container | tightly | closed |
|-------|-------|-----------|---------|--------|
| . 200 | 11000 | COLICALIO | ugiluy  | olocoa |

P240 Ground/bond container and receiving equipment

P241 Use explosion proof electrical/ventilating/lighting/equipment

Use only non sparking tools P242

P243 Take precautionary measures against static discharge

Avoid breathing dust/fume/gas/mist/vapors/spray P261

Wash skin thoroughly after handling P264

Do not eat, drink or smoke when using this product P270

P271 Use only outdoors or in a well ventilated area

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P303+P361+P353 IF IN SKIN (or hair): Remove/Take off immediately all contaminated 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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

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

P403+P235 Store in a well ventilated place. Keep cool.

> 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**

Substances

Synonyms 2-Heptanone/2-Nonanone/2-Undecanone

Formula

Molecular Weight

CAS-No 110-43-0/821-55-6/112-12-9

EC-No. Index No,

**Hazardous Components** 

Classification Component Concentration

2-Heptanone Flammable liquids (3), H226 <= 100%

2- Nonanone Acute toxicity, Oral (4), H302 Acute toxicity, Inhalation (4), H332 2-Undecanone Very toxic to aquatic life with long lasting

effects, H410

#### 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.

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

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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

substance or mixture

Carbon oxides

**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: 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.

**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

Contain spillage. Wet Sweep up with broom and 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, cool and well-ventilated place. Containers which

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

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## 7.3 Specific End use(s)

Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

| Component    | CAS-No.                           | Value | Control Parameters | Basis   |  |
|--------------|-----------------------------------|-------|--------------------|---|--|
| Heptan-2-one | 110-43-0                          | TWA   | 50 ppm             | USA. ACGIH Threshold Limit Values (TLV)           |  |
|              | Remarks: Skin and eye irritation  |       |                    |   |  |
|              |                                   | TWA   | 100 ppm            | USA. Occupational Exposure Limits (OSHA) – Table  |  |
|              |                                   |       | 465 mg/m3          | Z-1 Limits for Air Contaminates                   |  |
|              | The value in mg/m3 is approximate |       |                    |   |  |
|              |                                   | TWA   | 100 ppm            | USA. OSHA – Table Z-1 Limits for Air Contaminates |  |
|              |                                   |       | 465 mg/m3          | <b>– 1910.1000</b>                                |  |
|              |                                   | TWA   | 100 ppm            | USA. NIOSH Recommended Exposure Limits            |  |
|              |                                   |       | 465 mg/m3          |   |  |

## 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.

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

Wear chemically resistant Butyl rubber gloves, 0.3mm. 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 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 pale yellow liquid

b Odor characteristic
c Odor Threshold No data available
d pH No data available
e Melting Point /Freezing Point No data available

f Boiling Point ~185°C

g Flash Point ~50°C closed cup h Evaporation Rate No data available i Flammability (Solid, Gas) No data available

j Upper/lower Flammability Limit Upper explosion limit: 7.9% (V), Lower explosion limit: 1.11% (V)

k Vapor pressure 2.85 hPa at 20°C Vapor density 3.94 (Air=1.0) m Relative density @25°C 0.818-0.835

n Solubility Slightly soluble in water, soluble in alcohol and most organic solvents

o Partition coefficient: n-octanol/water p Auto-ignition Temp. 358°C at 99.63 hPa q Decomposition Temp. No data available r Viscosity No data available s Explosive properties No data available t Oxidizing properties No data available

9.2 Other Safety Information Surface tension: 26.17 mN/m at 25°C

### 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
 10.4 Conditions to avoid
 No data available
 Heat, Flames and Sparks

10.5 Incompatible materials Strong oxidizing agents, Strong reducing 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- Rat 1,600 mg/kg

LC50-Inhalation- Rat (m/f) >16.7 mg/l 4 hr

(OECD Test Guideline 403)

LD50-Dermal-Rat (m/f) >5,000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation Rabbit – Mild skin irritation - 4hr

(OECD Test Guideline 404)

Serious eye damage/eye irritation Rabbit: Mild eye irritation

(OECD Test Guideline 405)



Mouse: Did not cause sensitisation on laboratory animals Respiratory or skin sensitization

(OECD Test Guideline 429)

In Vitro Assay; Lymphocyte: Germ Cell mutagenicity

Result: Negative

Rat-Female - Result: Negative

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.

No component of this product, present at levels greater than or equal to 0.1% ACGIH

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% NTP

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 Specific target organ toxicity-single

exposure (GHS)

No data available No data available

No data available

Specific target organ toxicity-repeated

exposures (GHS) Aspiration Hazards No data available

No data available

Signs and Symptoms of Exposure

Stomach Irregularities - Based on Human Evidence

Central Nervous system depression

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

properties have not been thoroughly investigated

Synergistic effects No data available

No data available RTECS:

#### **ECOLOGICAL INFORMATION** Section 12:

12.1 **Toxicity** To Fish:

LC50- Pimephales promelas (fathead minnow) 126-137 mg/l -96 hr

To daphnia and other aquatic invertebrates

EC50-Static test: Pseudokirchneriella subcapitata (Selenastrum

capricornutum) 98.2 mg/l 72 hr (OECD Test Guideline 201)

Biodegradability: Aerobic: Exposure time 28 d Persistence and degradability

Result: 69% - Readily biodegradable

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(OECD Test Guideline 310)



Ration BOD/ThBOD: 1.77%

**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 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) UN Number: 1993 Class: 3 Packing Group III

Proper Shipping Name Flammable liquid, n.o.s.

Reportable Quantity (RQ) No Marine pollutant No 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 EMS-No. F-A, S-F

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE.

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

## 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 Fire Hazard, Acute Health Hazard

Massachusetts Right to Know Heptan-2-one CAS# 110-43-0 Rev. Date: 4/1/1994

components

Pennsylvania Right to Know components Heptan-2-one CAS# 110-43-0 Rev. Date: 4/1/1994

Nonan-2-one CAS# 821-55-6 Rev. Date: Undecan-2-one CAS# 112-12-9 Rev. Date:

aurochemicals.com

# **Safety Data Sheet**



New Jersey Right to Know components Heptan-2-one CAS# 110-43-0 Rev. Date: 4/1/1994

Nonan-2-one CAS# 821-55-6 Rev. Date: 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 1
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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