SIGMA-ALDRICH	
1. PRODUCT AND COMPANY IDENTIFICATION	1

ų

#### Product identifiers 1.1

Identified uses

2	<b>Relevant</b> identified us	ee of th	a substance or mixture and uses a
	CAS-No.	:	110-43-0
	Product Number Brand Index-No.	:	W254401 Aldrich 606-024-00-3
	Product name	:	2-Heptanone

#### 1.2 of the substance or mixture and uses advised against Relevant iden

: Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone Fax		+1 800-325-5832 +1 800-325-5052

## 1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

	Pictogram	
	Signal word	Warning
	Hazard statement(s) H226 H302 + H332	Flammable liquid and vapour. Harmful if swallowed or if inhaled
00000599 Aldrict	Precautionary statement(s) P210 P233 P240 P241 P242 P242 P243 P261 P264 P264 P264	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling.

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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: Call a POISON CENTER or doctor/ physician if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHÅLED: 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 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

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SAFETY DATA SHEET

Synonyms	:	Methyl pentyl ketone
Formula	:	C7H14O
Molecular weight	:	114.19 g/mol
CAS-No.	:	110-43-0
EC-No.	:	203-767-1
Index-No.	:	606-024-00-3

## Hazardous components

Component	Classification	Concentration
Heptan-2-one		
	Flam. Liq. 3; Acute Tox. 4;	<= 100 %
	H226, H302 + H332	

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 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.

## ∦f inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

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	f)	Initial boiling point and boiling range	149 - 150 ℃ (300 - 302 ℉) - lit.
	g)	Flash point	41 °C (106 °F) - closed cup
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7.9 %(V) Lower explosion limit: 1.11 %(V)
	k)	Vapour pressure	2.85 hPa (2.14 mmHg) at 20 °C (68 °F)
	I)	Vapour density	3.94 - (Air = 1.0)
	m)	Relative density	0.82 g/cm3 at 25 °C (77 °F)
	n)	Water solubility	4.21 g/l at 20 ℃ (68 °F)
	o)	Partition coefficient: n- octanol/water	log Pow: 1.98
	p)	Auto-ignition temperature	358 ℃ (676 ℉) at 99.63 hPa (74.73 mmHg)
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
	Oth	ner safety information	
		Surface tension	26.17 mN/m at 25 ℃ (77 °F)
		Relative vapour density	3.94 - (Air = 1.0)
0	TAD	UTV AND DEACTIVITY	

# **10. STABILITY AND REACTIVITY**

10.1	Reactivity
	No data available

9.2

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 Strong oxidizing agents, Strong reducing agents, Strong bases

LC50 Inhalation - Rat - male and female - 4 h - > 16.7 mg/l

10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 1,600 mg/kg

0 LC50 Inh (OECD T 0 Aldrich - W254401

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(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 402)

No data available

# Skin corrosion/irritation

Skin - Rabbit Result: Mild skin irritation - 4 h (OECD Test Guideline 404)

### Serious eye damage/eye irritation Eyes - Rabbit Result: Mild eye irritation

(OECD Test Guideline 405)

# Respiratory or skin sensitisation

- Mouse Did not cause sensitisation on laboratory animals. (OECD Test Guideline 429)

# Germ cell mutagenicity

in vitro assay lymphocyte Result: negative

### Rat - female Result: negative

#### 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.
- 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

No data available

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: MJ5075000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Central nervous system depression

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 126 - 137 mg/l - 96 h	
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