# SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-10 Print Date: 2024-01-11

# SECTION 1:Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

: Propionaldehyde
: P100055
: aladdin
: 123-38-6

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

Identified uses : Laboratory chemic	cals,Manufacture of substances.
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## 1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

## 1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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

## 2.2 GHS Label elements, including precautionary statements

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Pictogram	
Signal word	Danger
Hazard statement(s)	
H225	Highly Flammable liquid and vapor
Precautionary statement(s)	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting//] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and] thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses if present and easy to do - continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use to extinguish.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Synonyms	: Propanal
Formula	: C3H6O
Molecular weight	: 58.08
CAS No.	: 123-38-6
EC-NO.	: no data available

Є8Щ88Л£Пŧ Propionaldehyde	Elassification	<b>Esneentratisn</b>
	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H225, H302, H332, H315, H318, H335	Standard for GC,>99%(GC)

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses. If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media no data available

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Risk of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

# 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

# 5.4 Further information

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Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

## 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Clean up affected area.

#### 6.4 Reference to other sections

For disposal see section 13.

#### SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.Recommended storage temperature room temp Handle and open container with care. Light sensitive , Store away from light.

## 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

Component	CAS No.	Value	Control	Basis
			parameters	

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Propanal	123-38-6	TWA	20 mg/m3	United States. ACGIH
				Threshold Limit (TLV)
	123-38-6	TWA	20 mg/m3	United States. Workplace
				Environmental Exposure
				Level (WEEL)

# 8.2 Exposure controls

Appropriate engineering controls

Replace contaminated clothing immediately. Use skin protection lotions. Wash your hands and face after using this substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety

goggles

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

Flame retardant antistatic protective clothing.

**Respiratory protection** 

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic

compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: Colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-81°C(lit.)
f) Initial boiling point and boiling range	46°C
g) Flash point	-37 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available

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j) Upper/lower flammability or	
explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	0.81
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	r no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

Exothermic reaction with: alkali hydroxides mineral acids Oxidizing agents

#### 10.4 Conditions to avoid

Warming.

#### 10.5 Incompatible materials

no data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

## Acute toxicity

LD50 Oral - Rat - female - 1.690 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Mouse - 4 h - 10,9 mg/l Remarks: Lungs, Thorax, or Respiration:Acute pulmonary edema. Liver:Other changes. Kidney, Ureter, Bladder:Other changes. (RTECS) LD50 Dermal - Rabbit - female - 2.460 mg/kg (OECD Test Guideline 402) Remarks: Behavioral:Somnolence ALADDIN SCIENTIFIC CORPORATION 14078 Meridian Parkway, Riverside, CA. 92518

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(general depressed activity). Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea. Skin corrosion/irritation Skin - Rabbit Result: Skin irritation - 4 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: Causes serious eye irritation. Remarks: (RTECS) Respiratory or skin sensitisation Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429) Germ cell mutagenicity Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative Carcinogenicity no data available Reproductive toxicity no data available Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information RTECS: UE0350000 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After absorption: Tiredness narcosis Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 14 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 88,7 mg/l - 48 h (Regulation (EC) No. 440/2008, Annex, C.2) Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 260 mg/l - 72 h (DIN 38412)

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: ca.91 - 97 % - Readily biodegradable. (OECD Test Guideline 301C) Ratio BOD/ThBOD 95 % Ratio BOD/ThBOD 38 %

#### 12.3 Bioaccumulative potential

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no data available

#### 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

#### SECTION 13:

#### 13.1 Disposal considerations

Product Hand over the remaining and non-recyclable solution to a licensed company. Contaminated packaging no data available

#### **SECTION 14: Transport information**

Packing group: II	Class: 3
Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Packing group: II	EMS-No: no data available
DEHYDE	
Packing group: II _DEHYDE	Class: 3
	Reportable Quantity(RQ): no data available Packing group: II DEHYDE Packing group: II

#### **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **SECTION 16: Other information**

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