

Version: v1
Revision Date: 2023-07-24
Print Date: 2023-07-27

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : Methyl formate
Product Number : M103449
Brand : aladdin
CAS-No. : 107-31-3

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

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd
Address : 36 Xinjinqiao Road, Shanghai
Telephone : 400-620-6333
Fax : no data available

1.4 Emergency telephone number

Emergency Phone : 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 GHS Label elements, including precautionary statements



Pictogram
Signal word
Hazard statement(s)

Danger

H224 : Extremely flammable liquid and vapor
H302 : Harmful if swallowed
H319 : Causes serious eye irritation
H332 : Harmful if inhaled
H335 : May cause respiratory irritation

Precautionary statement(s)

- Phone: 400-620-6333
- Email: Sale@aladdin-e.com
- Web: <https://www.aladdin-e.com>

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Formic acid methyl ester ; Methyl methanoate
Formula : C2H4O2
Molecular weight : 60.05
CAS No. : 107-31-3
EC-NO. : 203-481-7

Component	Classification	Concentration
Methyl formate		
	no data available	99%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
no data available

If inhaled
no data available

In case of skin contact
no data available

In case of eye contact
no data available

If swallowed
no data available

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Phone: 400-620-6333
- Email: Sale@aladdin-e.com
- Web: <https://www.aladdin-e.com>

Suitable extinguishing media

no data available

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

no data available

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

使用个人防护设备。防止吸入蒸汽、气雾或气体。保证充分的通风。移去所有火源。将人员撤离到安全区域。防范蒸汽积累达到可爆炸的浓度,蒸汽能在低洼处积聚。

6.2 Environmental precautions

在确保安全的条件下,采取措施防止进一步的泄漏或溢出。不要让产物进入下水道。

6.3 Methods and materials for containment and cleaning up

用防静电真空清洁器或湿的刷子将溢出物收集起来并放置到容器中去,根据当地规定处理(见第13部分)。

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

避免接触皮肤和眼睛。防止吸入蒸汽和烟雾。切勿靠近火源。 - 严禁烟火。采取防静电生成的措施。

7.2 Conditions for safe storage, including any incompatibilities

贮存在阴凉处。容器保持紧闭,储存在干燥通风处。打开了的容器必须仔细重新封口并保持竖放位置以防止泄漏。时间过长,压力逐渐增加引起容器爆裂开启前冷藏

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

- Phone: 400-620-6333
- Email: Sale@aladdin-e.com
- Web: <https://www.aladdin-e.com>

8.1 Control parameters**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eyeface protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU 2016 / 425 and the en 374 standard derived from it.

Body Protection

Complete suit protecting against chemicals, 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 fullface respirator with multi-purpose 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

no data available

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	form: 液体 color: 无色
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	4.0 - 5.0 在 200 g/l 在 20 °C
e) Melting point/freezing point	-100°C
f) Initial boiling point and boiling range	32 - 34 °C
g) Flash point	-19 °C - 闭杯
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	爆炸上限: 23 %(V) 爆炸下限: 5 %(V)
k) Vapour pressure	634.9 hPa 在 20 °C
l) Vapour density	2.07 - (空气= 1.0)
m) Relative density	0.974 g/cm ³ 在 20 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	-0.21
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available

- Phone: 400-620-6333
- Email: Sale@aladdin-e.com
- Web: <https://www.aladdin-e.com>

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

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

热,火焰和火花。 极端的温度和直接日光。

10.4 Conditions to avoid

氧化剂

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

半致死剂量(LD50) 经口 - 兔子 - 1,622 mg/kg

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

此产品中沒有大于或等于 0.1%含量的组分被 IARC鉴别为可能的或肯定的人类致癌物。

Carcinogenicity

- Phone: 400-620-6333
- Email: Sale@aladdin-e.com
- Web: <https://www.aladdin-e.com>

SECTION 14: Transport information

DOT (US)

UN number: 1243

Packing group: I

Class: 3

Proper shipping name: METHYL
FORMATE

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data

Environmental Hazards: 否

IMDG

UN number: 1243

Packing group: I

EMS-No: no data available

Proper shipping name: METHYL FORMATE

IATA

UN number: 1243

Packing group: I

Class: 3

Proper shipping name: METHYL FORMATE

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: v1

Revision Date: 2023-07-
24

Print Date: 2023-07-
27

-
- Phone: 400-620-6333
 - Email: Sale@aladdin-e.com
 - Web: <https://www.aladdin-e.com>