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SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : Dodecane
Product Number : D108176
Brand : aladdin
CAS-No. : 112-40-3

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

Identified uses : 仅供科研用途，不作为药物、家庭备用药或其它用途。

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	Danger
Hazard statement(s)	
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
Precautionary statement(s)	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.

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P403+P235
P501

Store in a well-ventilated place. Keep cool.
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
Formula
Molecular weight
CAS No.
EC-NO.

: n-Dodecane
: C12H26
: 170.33
: 112-40-3
: 203-967-9

Component	Classification	Concentration
Dodecane	no data available	Standard for GC,≥99.5% (GC)

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
请教医生。 出示此安全技术说明书给到现场的医生看。

If inhaled
如果吸入,请将患者移到新鲜空气处。 如果停止了呼吸,给于人工呼吸。 请教医生。

In case of skin contact
用肥皂和大量的水冲洗。 请教医生。

In case of eye contact
眼睛接触 用水冲洗眼睛作为预防措施。

If swallowed
禁止催吐。 切勿给失去知觉者从嘴里喂食任何东西。 用水漱口。 请教医生。

4.2 Most important symptoms and effects, both acute and delayed

据我们所知，此化学，物理和毒性性质尚未经完整的研究。

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

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小（起始）火时，使用媒介物如“乙醇”泡沫、干化学品或二氧化碳。大火时，尽可能使用水灭火。使用大量（洪水般的）水以喷雾状应用；水柱可能是无效的。用大量水降温所有受影响的容器。

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

碳氧化物

5.3 Advice for firefighters

如必要的话,戴自给式呼吸器去救火。

5.4 Further information

水喷雾可用来冷却未打开的容器。

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

在确保安全的前提下，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)。存放在适当的闭口容器中待处理。

6.4 Reference to other sections

丢弃处理请参阅第13节。

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。采取措施防止静电积聚。

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。充气操作和储存 吸湿的

7.3 Specific end use(s)

no data available

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****8.2 Exposure controls****Appropriate engineering controls**

按照良好工业和安全规范操作。 休息前和工作结束时洗手

Personal protective equipment**Eye/face protection**

面罩與安全眼鏡请使用经官方标准如NIOSH (美国) 或 EN 166(欧盟) 检测与批准的设备防护眼部。

Skin protection

戴手套取 手套在使用前必须受检查。 请使用合适的方法脱除手套(不要接触手套外部表面),避免任何皮肤部位接触此产品.使用后请将被污染过的手套根据相关法律法规和有效的实验室规章制度谨慎处理.请清洗并吹干双手 所选择的保护手套必须符合EU的89/686/EEC规定和从它衍生出来的EN 376标准。 沉浸保护 联合国运输名称: 丁腈橡胶 最小的层厚度 0.4 mm 溶剂渗透时间: > 480 min 测试过的物质Camatril® (Aldrich Z677442, 规格 M) 飞溅保护Sigma-Aldrich - 297879 页码 5 的 9 联合国运输名称: 丁腈橡胶 最小的层厚度 0.2 mm 溶剂渗透时间: > 30 min 测试过的物质 Dermatril® P (Aldrich Z677388, 规格 M) 数据来源 KCL GmbH, D-36124 Eichenzell, 电话号码 +49 (0)6659 873000, e-mail sales@kcl.de, 测试方法 EN374 如果以溶剂形式应用或与其它物质混合应用,或在不同于EN 374规定的条件下应用,请与EC批准的手套的供应 商联系。 这个推荐只是建议性的,并且务必让熟悉我们客户计划使用的特定情况的工业卫生学专家评估确认才可.这不应该解释为在提供对任何特定使用情况方法的批准。

Body Protection

全套防化学试剂工作服, 防护设备的类型必须根据特定工作场所中的危险物的浓度和含量来选择。

Respiratory protection

如危险性评测显示需要使用空气净化的防毒面具, 请使用全面罩式多功能防毒面具 (US) 或ABEK型 (EN 14387) 防毒面具筒作为工程控制的候补。如果防毒面具是保护的唯一方式, 则使用全面罩式送风防 毒面具。 呼吸器使用经过测试并通过政府标准如NIOSH (US) 或CEN (EU) 的呼吸器和零件。

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,清楚 color: 无色
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-9.6 °C - lit.
f) Initial boiling point and boiling range	215 - 217 °C - lit.
g) Flash point	71 °C - 闭杯
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	爆炸下限: 0.6 %(V)
k) Vapour pressure	1 hPa 在 47.80 °C
l) Vapour density	5.88 - (空气= 1.0)
m) Relative density	0.75 g/cm ³ 在 25 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	205 °C

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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

no data available

10.3 Possibility of hazardous reactions

暴露于湿气可能影响产品质量

10.4 Conditions to avoid

强氧化剂

10.5 Incompatible materials

其它分解产物 - 无数据资料

10.6 Hazardous decomposition products

无数据资料 <div>半数致死浓度 (LC50) 吸入 - 大鼠 - 8 h - > 142 ppm</div>

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

IARC: 此产品中并没有大于或等于 0。1%含量的组分被 IARC鉴别为可能的或肯定的人类致癌物。

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Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

吸入可能有害。可能引起呼吸道刺激。

Aspiration hazard

no data available

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

生物富集或生物积累性 Leuciscus idus melanotus - 3 d -37 µg/l 生物浓度因子 (BCF): 52

12.3 Bioaccumulative potential

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

no data available

SECTION 13:

13.1 Disposal considerations

Product

此易爆炸产品可以在备有燃烧后处理和洗刷作用的化学焚化炉中燃烧 将剩余的和未回收的溶液交给处理公司。 联系专业的拥有废弃物处理执照的机构来处理此物质。

Contaminated packaging

作为未用过的产品弃置。

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SECTION 14: Transport information

DOT (US)

UN number: no data available	Packing group: no data available	Class: no data available
Proper shipping name: no data available	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data
Environmental Hazards: No		

IMDG

UN number: no data available	Packing group: no data available	EMS-No: no data available
Proper shipping name: no data available		

IATA

UN number: no data available	Packing group: no data available	Class: no data available
Proper shipping name: no data available		

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

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