# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 6.0 Revision Date 07/13/2018 Print Date 11/15/2018

#### 1. PRODUCT AND COMPANY IDENTIFICATION 1.1 **Product identifiers** Product name 1 <I>N</>,<I>N</>-Diethylacetoacetamide Product Number 690945 Brand Aldrich CAS-No. : 2235-46-3 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Synthesis of substances Details of the supplier of the safety data sheet 1.3 Company Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES +1 314 771-5765 Telephone +1 800 325-5052 Fax 1.4 **Emergency telephone number** Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

:	C <sub>8</sub> H <sub>15</sub> NO <sub>2</sub>
:	157.21 g/mol
:	2235-46-3
:	218-792-3
	:

No components need to be disclosed according to the applicable regulations.

### 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.

### If 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

Flush eyes with water as a precaution.

### If swallowed

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

### **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, Nitrogen oxides (NOx)

### **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information No data available

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

### 7. HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** 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. Storage class (TRGS 510): 10: Combustible liquids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 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

### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### 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**

Impervious 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 full-face respirator with multipurpose 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** 

Do not let product enter drains.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: yellow-orange
b)	Odour	amine-like
c)	Odour Threshold	No data available
d)	рН	7 - 10 at 80 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/range: -72.99 °C (-99.38 °F)
f)	Initial boiling point and boiling range	85 - 87 °C (185 - 189 °F) at 1 hPa 213 - 218 °C (415 - 424 °F) at 1013 hPa
g)	Flash point	94 °C (201 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	1 hPa at 50 °C (122 °F)
I)	Vapour density	No data available
m)	Relative density	0.995 g/cm3 at 20 °C (68 °F)
n)	Water solubility	10 g/l at 26 °C (79 °F) - soluble
o)	Partition coefficient: n- octanol/water	No data available

p)	Auto-ignition temperature	No data available			
q)	Decomposition temperature	No data available			
r)	Viscosity	No data available			
s)	Explosive properties	No data available			
t)	Oxidizing properties	No data available			
Other safety information					
	Solubility in other solvents	Ethanol 100 g/l - soluble			

### **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** No data available
- **10.5** Incompatible materials Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) 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 - 4,760 mg/kg

## Skin corrosion/irritation

Skin - Rabbit Result: Mild skin irritation - 24 h

### Serious eye damage/eye irritation

### Respiratory or skin sensitisation

#### Germ cell mutagenicity

#### 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 on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

Specific target organ toxicity - single exposure

### Specific target organ toxicity - repeated exposure

### Aspiration hazard

### **Additional Information**

RTECS: AK4025000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **12. ECOLOGICAL INFORMATION**

### 12.1 Toxicity

- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- **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

### **13. DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

DOT (US) Not dangerous goods IMDG Not dangerous goods

IATA Not dangerous goods

### **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

No SARA Hazards

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

N,N-Diethylacetoacetamide

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### New Jersey Right To Know Components

N,N-Diethylacetoacetamide

#### 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.

### **16. OTHER INFORMATION**

### **Further information**

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### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956 Version: 6.0

Revision Date: 07/13/2018

Print Date: 11/15/2018

CAS-No. 2235-46-3 **Revision Date**