# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 4.6 Revision Date 06/26/2014 Print Date 11/14/2018

1. PF	RODUCT AND COMPANY ID	EN.	TIFICATION
1.1	Product identifiers Product name	:	3-Phenyl-2-propynenitrile
	Product Number Brand	:	672645 Aldrich
	CAS-No.	:	935-02-4
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	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	1.4 Emergency telephone number		er
	Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 3), H301

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram

	$\mathbf{\vee}$
Signal word	Danger
Hazard statement(s) H301	Toxic if swallowed.
Precautionary statement(s) P264 P270 P301 + P310	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P321 P330 P405 P501	Specific treatment (see supplemental first aid instructions on this label). Rinse mouth. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS Possible sensitizer.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Synonyms :	Phenylpropiolonitrile
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Formula	:	C <sub>9</sub> H <sub>5</sub> N
Molecular Weight CAS-No.		127.14 g/mol 935-02-4
Uasandana aananananta	•	933-02-4

#### Hazardous components

Component	Classification	Concentration
Propiolonitrile, phenyl-		
	Acute Tox. 3; H301	-
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.

## 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. Take victim immediately to hospital. 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), Hydrogen cyanide (hydrocyanic acid)

## **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. 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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. 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.

Recommended storage temperature: 2 - 8 °C

# 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Personal protective equipment

## Eye/face protection

Face shield and safety glasses 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**

Complete suit protecting against chemicals, 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 particle respirator type N99 (US) or type P2 (EN 143) 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

- a) Appearance Form: Crystals with lumps Colour: colourless
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH no data available

e)	Melting point/freezing point	37 - 42 °C (99 - 108 °F)
f)	Initial boiling point and boiling range	80 °C (176 °F) at 4 hPa (3 mmHg)
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	1.0046 g/cm3 at 41 °C (106 °F)
n)	Water solubility	no data available
0)	Partition coefficient: n- octanol/water	log Pow: 2.003
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
Oth	ner safety information	

# no data available

# **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

9.2

- no data available
- **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, Strong acids and strong bases
- **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 - mouse - 113 mg/kg

Inhalation: no data available

Dermal: no data available

## Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation no data available

### Respiratory or skin sensitisation Germ cell mutagenicity no data available

## 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: UE0220000

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

# **12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity no data available
- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- 12.4 Mobility in soil no data available

## **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

no data available

# **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

### DOT (US)

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (Propiolonitrile, phenyl-) Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

## IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Propiolonitrile, phenyl-) Marine pollutant: No

## ΙΑΤΑ

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (Propiolonitrile, phenyl-)

# **15. REGULATORY INFORMATION**

# SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313 Components

SARA 313: 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

Acute Health Hazard

# Massachusetts Right To Know Components

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

# Pennsylvania Right To Know Components

Propiolonitrile, phenyl-	CAS-No. 935-02-4	Revision Date
New Jersey Right To Know Components		
Propiolonitrile, phenyl-	CAS-No. 935-02-4	Revision Date

### 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**

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
H301	Toxic if swallowed.

HMIS Rating	
Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

# **Further information**

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# Preparation Information

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

Version: 4.6

Revision Date: 06/26/2014

Print Date: 11/14/2018