Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182 E-Mail: info@armar-europa.de www.armar-europa.de



## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 22 Sep 2022

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product name:

Acetonitrile-d3

## 1.1. Catalog No.:

1025

#### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

## 1.3. Uses advised against:

HPC Standards GmbH Permoserstrasse 15

04318 Leipzig Germany

Tel. +49 341 5295 183 Fax. +49 341 5295 182 E-mail: info@armar-europa.de

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Eye irritation (Category 2), H319
For the full text of the H-Statements mentioned in this Section, see Section 16.

F Highly flammable R11 Xn Harmful R20/21/22 Xi Irritant R36

## 2.2. Label elements

## 2.2.1. Pictogram





## 2.2.2.

Signal word Danger Hazard statement(s) H225 Highly flammable liquid and vapour. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled H319 Causes serious eye irritation.

**ARMAR**Seite 2/8

Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. Who should be perfective gloves/ protective clothing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard
Statements
none
2.3 Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms: Trideuteroacetonitrile
Methyl-d3 cyanide
Hazardous ingredients
Component Classification Concentration
Acetonitrile-d3
Flam. Liq. 2; Acute Tox. 4; Eye
Irrit. 2; H225, H302 + H312 +
H332, H319
<= 100 %

## 3.1.1. Formula

C2D3N

# 3.1.2. Molecular Weight (g/mol)

44.07

## 3.1.3. CAS-No.

2206-26-0

Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182 E-Mail: info@armar-europa.de

www.armar-europa.de



#### 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. 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. FIRE-FIGHTING 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

no data available

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.
6.2 Environmental procedurions

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

 $\mathsf{SMVS}$ 

Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182

Avoid contact with skin and eyes. Avoid inhalation of Vapauino arms europa de

Keep away from sources of ignition - No smoking. Take measures the build up of electrostatic

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

7.3 Specific end uses no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Derived No Effect Level (DNEL)
Application Area Workers
Eventure routes labeletics

Exposure routes Inhalation

Health effect Acute local effects, Acute systemic effects Value 68 mg/m3
Application Area Workers
Exposure routes Skin contact

Health effect Long-term systemic effects Value 32,2mg/kg BW/d

Application Area Workers

Exposure routes Inhalation

Health effect Long-term local effects, Long-term systemic effects

Value 68 mg/m3

Application Area Workers Exposure routes Inhalation

Health effect Long-term local effects, Long-term systemic effects

Value 68 mg/m3
Application Area Consumers Exposure routes Inhalation Health effect Acute local effects Value 220 mg/m3 Application Area Consumers

Exposure routes Inhalation

Health effect Acute systemic effects

Value 22 mg/m3
Application Area Consumers
Exposure routes Inhalation

Health effect Long-term systemic effects

Value 4,8 mg/m3

Predicted No Effect Concentration (PNEC)
Compartment Value 10 mg/l 2,41 mg/kg Water Soil Marine water 1 mg/l 10 mg/l 7,53 mg/kg Fresh water Fresh water sediment Onsite sewage treatment plant 32 mg/l

## 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

Face shield and safety glasses Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our

Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182



customers. It should not be construed as offering an approvide of the construed as offering an approvide www.armar-europa.de

**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

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: clear, liquid

Colour: colourless

b) Odour pungent
c) Odour Threshold No data available
d) pH No data available
e) Melting

point/freezing point No data available f) Initial boiling point and boiling range 80,7 °C - lit.

g) Flash point 2,00 °C - closed cup h) Evaporation rate No data available

i) Flammability (solid,

gas) No data available j) Upper/lower flammability or explosive limits

explosive límits
Upper explosion limit: 16,00 %(V)
Lower explosion limit: 4,40 %(V)
k) Vapour pressure 413,23 hPa at 55,00 °C
73,18 hPa at 15,00 °C
119,81 hPa at 25,00 °C
I) Vapour density No data available
m) Relative density 0,844 g/cm3 at 25 °C
n) Water solubility soluble
o) Partition coefficient:

n) water solubility solu o) Partition coefficient: n-octanol/water log Pow: -0,340 p) Auto-ignition temperature No data available q) Decomposition tëmperature No data available

r) Viscosity No data available

s) Explosive properties No data available t) Oxidizing properties No data available 9.2 Other safety information

No data available

Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182 E-Mail: info@armar-europa.de www.armar-europa.de



### 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 No data available 10.4 Conditions to avoid Heat, flames and sparks. 10.5 Incompatible materials

acids, Bases, Oxidizing agents, Reducing agents, Alkali metalsStrong 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

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 2.460 mg/kg
LC50 Inhalation - Rat - 8,00 h - 7551 ppm
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral: Convulsions or effect on seizure threshold. Blood: Hemorrhage.

LD50 Dermal - Rabbit - 2.000 mg/kg Skin corrosion/irritation

Skin - Rabbit Result: Mild skin irritation Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irritating to eyes. (OECD Test Guideline 405) Respiratory or skin sensitisation

No data available 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. Reproductive toxicity

No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Treat as cyanide poisoning., Always have on hand a cyanide first-aid kit, together with proper instructions., The onset of symptoms is generally delayed pending conversion to cyanide., Nausea, Vomiting, Diarrhoea

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

Phone: +49 (0)341 5295 183 Fax: +49 (0)341 5295 182 E-Mail: info@armar-europa.de www.armar-europa.de



no data available 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. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## 14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: 1648 IMDG: 1648 IATA: 1648
14.2 UN proper shipping name
ADR/RID: ACETONITRILE
IMDG: ACETONITRILE
IMDG: ACETONITRILE
IATA: Acetonitrile
14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3
14.4 Packaging group
ADR/RID: II IMDG: II IATA: II
14.5 Environmental hazards
ADR/RID: no IMDG Marine Pollutant: no IATA: no
14.6 Special precautions for user
no data available

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of the regulation named on the first page of this SDS. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 15.2 Chemical Safety Assessment no data available

Phone: +49 (0)341 5295 183
Fax: +49 (0)341 5295 182
Seite 8/8

The above information is believed to be correct but does a properties of the present state of our wife and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!