

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 16 Aug 2022

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

#### 1.1. Product name:

D5-3-Chloro-1,2-propanediol

## 1.1. Catalog No.:

674650

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

Identified: Laboratory chemical uses: R&D

uses:

## 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

## 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

### 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 4), H312
Serious eye damage (Category 1), H318
Reproductive toxicity (Category 1B), H360 Classification according to EU Directives 67/548/EEC or 1999/45/EC
T Toxic R60, R21, R23/25, R41

## 2.2. Label elements

#### 2.2.1. Pictogram









Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Danger Hazard statement(s)

H300 Fatal if swallowed.

H312 Harmful in contact with skin. H318 Causes serious eye damage. H331 Toxic if inhaled.

H360 May damage fertility or the unborn child. Precautionary statement(s)

P201 Obtain special instructions before use.

P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/

physician.
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

Restricted to professional users.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization: Isotopically labeled Formula: C3D5H2ClO2

Molecular weight : 115,57 g/mol CAS-No. : 342611-01-2

CAS-No. . 342011-01-2
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
(±)-3-Chloro-1,2-propane-1,1,2,3,3-d5-diol
CAS-No.

CAS-INO. 342611-01-2 Acute Tox. 2; Acute Tox. 3; Acute Tox. 4; Eye Dam. 1; Repr. 1B; H300, H312, H318, H331, H360

<= 100 %

Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration (±)-3-Chloro-1,2-propane-1,1,2,3,3-d5-diol CAS-No.

342611-01-2 T, R60 - R21 - R23/25 - R41 <= 100 %

### 3.1.1. Formula

C3H2CID5O2



## 3.1.2. Molecular Weight (g/mol)

115.57

#### 3.1.3. CAS-No.

342611-01-2

## 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. Take victim immediately to hospital. 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

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

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
Carbon oxides, Hydrogen chloride gas
5.3 Advice for firefighters
Waar self contained breathing apparatus for firefighting if pagessary. 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 Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.



Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautionsPrevent 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

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 Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.
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.

Store under inert gas. hygroscopic

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

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

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EŬ)

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

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 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: liquid

Colour: colourless

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available e) Melting point/freezing

point No data available

f) Initial boiling point and

1) Initial boiling point and boiling range 216 - 219 °C g) Flash point Not applicable h) Evaporation rate No data available i) Flammability (solid, gas) No data available il Hapar/Journe.

i) Flammability (solid, gas) No data available
j) Upper/lower
flammability or
explosive limits
No data available k) Vapour pressure No data available
l) Vapour density No data available
m) Relative density 1,381 g/cm3 at 25 °C
n) Water solubility No data available
o) Partition coefficient: noctanol/

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

9.2 Other safety information

No data available

# 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
Avoid moisture.
10.5 Incompatible materials
Strong oxidizing agents
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 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 No data available Germ cell mutagenicity No data available

Carcinogenicity
IARC: 2B - Group 2B: Possibly carcinogenic to humans ((±)-3-Chloro-1,2-propane-1,1,2,3,3-d5-diol) Reproductive toxicity
Presumed human reproductive toxicant

May cause reproductive disorders.

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: Not available

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
Biodegradability Result: - Not readily biodegradable. Biochemical Oxygen Demand (BOD) 980 mg/g Chemical Oxygen Demand (COD) 10 mg/g Ratio BOD/ThBOD 68 % 12.3 Bioaccumulative potential Does not bioaccumulate. 12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and

toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Other adverse effects

Additional ecological

information

Avoid release to the environment

## 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

14.1 UN number
ADR/RID: 2689 IMDG: 2689 IATA: 2689
14.2 UN proper shipping name
ADR/RID: GLYCEROL alpha-MONOCHLOROHYDRIN
IMDG: GLYCEROL-alpha-MONOCHLOROHYDRIN IATA: Glycerol alpha-monochlorohydrin
14.3 Transport hazard class(es)
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
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 Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No data available 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

## 16. OTHER INFORMATION

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. For lab use only!