

Trade name: di-Ammoniumhydrogencitrat MERCK

Substance number: 063238

Version: 1 / CH

Date revised: 05.02.2024

Replaces Version: - / CH

Print date: 05.02.24

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

### **1.1. Product identifier**

di-Ammoniumhydrogencitrat MERCK

Item No. 06323800

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Warning

##### **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

##### **Precautionary statements**

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501.3 Disposal in compliance with local and national regulations.

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### 2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

## **SECTION 3: Composition/information on ingredients**

### **Hazardous ingredients**

#### **Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

CAS No.	3012-65-5		
EINECS no.	221-146-3		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2		H315
	Eye Irrit. 2		H319

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

In any case show the physician the Safety Data Sheet.

#### **After inhalation**

Remove the casualty into fresh air and keep him calm.

#### **After skin contact**

Remove contaminated clothing. In case of contact with skin wash off with water.

#### **After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

#### **After ingestion**

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

### **4.2. Most important symptoms and effects, both acute and delayed**

Important or other important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water, Foam, Carbon dioxide, Dry powder

#### **Non suitable extinguishing media**

No extinguishing agent restrictions

### **5.2. Special hazards arising from the substance or mixture**

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>); Ammonia (NH<sub>3</sub>); In case of combustion evolution of dangerous gases possible. The product is combustible.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

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**Other information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust. Avoid contact with eyes and skin. Ensure adequate ventilation. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Do not empty into drains.

**6.3. Methods and material for containment and cleaning up**

To pick up dry. Clean up affected area. Dispose of absorbed material in accordance with the regulations. Avoid raising dust.

**6.4. Reference to other sections**

Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

The product is combustible.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed and dry.

**Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****General protective and hygiene measures**

General industrial hygiene practice. Observe the usual precautions for handling chemicals.

**Respiratory protection**

Breathing apparatus in the event of aerosol. Short term: filter apparatus, Filter P2

**Hand protection**

Appropriate Material	nitrile rubber - NBR	
Material thickness	0.11	mm
Breakthrough time	480	min

Hand protection must comply with EN 374.

**Eye protection**

Eye protection must comply with EN 166. Safety glasses

**Body protection**

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Protective clothing

**Environmental exposure controls**

Do not allow to enter drains or water courses.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	solid			
<b>Colour</b>	white			
<b>Melting point</b>				
Value	174	to	176	°C
Pressure	1.016	hPa		
Method	OECD 102			

**Boiling point or initial boiling point and boiling range**

Value	> 500			°C
Pressure	1.016	hPa		
Method	OECD 103			

**Flash point**

Value	°C
Remarks	Not applicable

**pH value**

Value	4.3		
Concentration/H <sub>2</sub> O	23	g/l	
Temperature	20	°C	

**Partition coefficient n-octanol/water (log value)**

log Pow	-2.84
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**Density and/or relative density**

Value	1.48		g/cm <sup>3</sup>
Temperature	25	°C	

**Relative vapour density**

Remarks	not determined
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**9.2. Other information****Solubility in water**

Remarks	soluble
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**Bulk density**

Value	400	to	600	kg/m <sup>3</sup>
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Strong reactions with strong oxidising agents possible.

**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

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**10.5. Incompatible materials**

Strong oxidising agents

**10.6. Hazardous decomposition products**Carbon monoxide and carbon dioxide, nitrous oxides (NO<sub>x</sub>), Ammonia**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Acute dermal toxicity (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Acute inhalative toxicity (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Skin corrosion/irritation (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**Species rat  
evaluation irritant**Serious eye damage/irritation (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**Species rabbit  
evaluation irritant  
Method OECD 405**Sensitization (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Mutagenicity (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Reproduction toxicity (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Carcinogenicity (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**Specific Target Organ Toxicity (STOT) (Components)****Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate**

Remarks No data available.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

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## **SECTION 12: Ecological information**

### **12.2. Persistence and degradability**

#### **Biodegradability (Components)**

Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate

Remarks

No data available.

### **12.3. Bioaccumulative potential**

#### **Partition coefficient n-octanol/water (log value)**

log Pow

-2.84

### **12.5. Results of PBT and vPvB assessment**

#### **Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

### **12.6 Endocrine disrupting properties**

#### **Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

#### **Disposal recommendations for packaging**

Dispose of as unused product.

## **SECTION 14: Transport information**

	<b>Land transport ADR/RID</b>	<b>Marine transport IMDG/GGVSee</b>	<b>Air transport ICAO/IATA</b>
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Water Hazard Class (Germany)**

Water Hazard Class

WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

## **SECTION 16: Other information**

#### **Hazard statements listed in Chapter 3**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

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### CLP categories listed in Chapter 3

Eye Irrit. 2

Eye irritation, Category 2

Skin Irrit. 2

Skin irritation, Category 2

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.