

# Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 26.11.2018

Version: 1.0

Product: **ARDROX 9881**

(ID no. 30707006/SDS\_GEN\_GB/EN)

Date of print 08.10.2020

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

### 1.1. Product identifier

**ARDROX 9881**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: emulsifier

Not recommended use: None known

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

Company:

Chemetall Ltd.

Napier House, Auckland Park

Bletchley, MK1 1BU

Great Britain

+44 1908 649333

sds.global-chemetall@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)

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Eye Dam./Irrit. 1

H302, H318

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

### Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H302 Harmful if swallowed.  
H318 Causes serious eye damage.

Precautionary Statements (Prevention):

P264 Wash with plenty of water and soap thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 Rinse mouth.  
P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

### According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione, Alcohol ethoxylate, N-oleoylsarcosine

## 2.3. Other hazards

### According to Regulation (EC) No 1272/2008 [CLP]

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If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

organic

#### Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione

Content (W/W):  $\geq 2\%$  -  $< 2.5\%$  Acute Tox. 4 (oral)

CAS Number: 6440-58-0 H302

EC-Number: 229-222-8

REACH registration number: 01-2119976015-37

Alcohol ethoxylate

Content (W/W):  $\geq 30\%$  -  $< 50\%$  Acute Tox. 4 (oral)

CAS Number: 68439-45-2 Eye Dam./Irrit. 1

H318, H302

3-iodo-2-propynyl butylcarbamate

Content (W/W):  $\geq 0\%$  -  $< 0.1\%$  Acute Tox. 4 (oral)

CAS Number: 55406-53-6 Acute Tox. 3 (Inhalation - dust)

EC-Number: 259-627-5 Eye Dam./Irrit. 1

REACH registration number: 01-2120762115-60 Skin Sens. 1

Aquatic Acute 1

Aquatic Chronic 1

M-factor acute: 10

M-factor chronic: 1

H318, H331, H302, H317, H410

N-oleoylsarcosine

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Content (W/W):  $\geq 3\%$  -  $< 5\%$   
 CAS Number: 110-25-8  
 EC-Number: 203-749-3  
 REACH registration number: 01-2119488991-20

Acute Tox. 4 (Inhalation - vapour)  
 Skin Corr./Irrit. 2  
 Eye Dam./Irrit. 1  
 Aquatic Acute 1  
 H318, H315, H332, H400

2-amino-2-methylpropanol

Content (W/W):  $\geq 1\%$  -  $< 2\%$   
 CAS Number: 124-68-5  
 EC-Number: 204-709-8  
 REACH registration number: 01-2119475788-16  
 INDEX-Number: 603-070-00-6

Skin Corr./Irrit. 2  
 Aquatic Chronic 3  
 Eye Dam./Irrit. 2  
 H319, H315, H412

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. Remove affected person from danger area. Remove contaminated clothes, undergarments and shoes immediately. Call a poison control center or physician for treatment advice.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

On skin contact:

Wash affected areas thoroughly with soap and water. If symptoms persist, seek medical advice.

On contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. Seek medical attention.

On ingestion:

Rinse mouth immediately with water. Do not induce vomiting. Obtain medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

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## **SECTION 5: Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

carbon dioxide, dry powder, alcohol-resistant foam, water spray

Unsuitable extinguishing media for safety reasons:

water jet

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

carbon oxides

### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Cool endangered containers with water-spray.

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## **SECTION 6: Accidental Release Measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### **6.2. Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Ensure adequate ventilation. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.

### **6.4. Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## **SECTION 7: Handling and Storage**

### **7.1. Precautions for safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). The workplace should be equipped with an emergency shower and eye-rinsing facility. Warn users about safety measures and precautions to prevent accidents.

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Protection against fire and explosion:

Take precautionary measures against static discharges. The relevant fire protection measures should be noted. Keep away from sources of ignition - No smoking.

## 7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP), Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep container tightly closed in a cool, well-ventilated place. The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep only in the original container. Avoid direct sunlight. Keep away from heat.

Storage class according to TRGS 510 (originally VCI, Germany): (10) Combustible liquids (as far as not classes 3A or 3B).

Storage stability:

Storage temperature: 5 - 40 °C

Storage duration: 36 Months

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with PNEC

6440-58-0: 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  
freshwater: 0.51 mg/l  
intermittent release: 0.11 mg/l  
marine water: 0.051 mg/l  
STP: 10 mg/l

110-25-8: N-oleoylsarcosine  
freshwater: 0.43 µg/l  
marine water: 0.043 µg/l  
intermittent release: 4.3 µg/l  
STP: 13 mg/l

124-68-5: 2-amino-2-methylpropanol  
sediment (marine water): 0.071 mg/kg  
STP: 10 mg/l  
intermittent release: 1.88 mg/l  
sediment (freshwater): 0.71 mg/kg  
soil: 0.03 mg/kg

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freshwater: 0.188 mg/l

marine water: 0.0188 mg/l

#### Components with DNEL

6440-58-0: 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  
consumer: Long-term exposure- systemic effects, by inhalation: 17.4 mg/m<sup>3</sup>  
Carcinogenicity  
consumer: Long-term exposure- systemic effects, oral: 10 mg/kg  
Carcinogenicity  
worker: Long-term exposure- systemic effects, dermal: 20 mg/kg  
Carcinogenicity  
consumer: Long-term exposure- systemic effects, dermal: 10 mg/kg  
Carcinogenicity  
worker: Long-term exposure- systemic effects, by inhalation: 70.6 mg/m<sup>3</sup>  
Carcinogenicity

110-25-8: N-oleoylsarcosine  
worker: Long-term exposure- systemic effects, Inhalation: 0.2 mg/m<sup>3</sup>  
worker: Long-term exposure - local effects, Inhalation: 0.01 mg/m<sup>3</sup>

124-68-5: 2-amino-2-methylpropanol  
worker: Long-term exposure- systemic effects, Inhalation: 4.7 mg/m<sup>3</sup>

## **8.2. Exposure controls**

### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. (Gas filter EN 14387 A)

Hand protection:

Wear protective gloves of neoprene.

Rubber gloves

Chemical resistant protective gloves (EN 374)

Further information on penetration time is available from the manufacturer of the glove.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

### General safety and hygiene measures

Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

|                            |                                   |
|----------------------------|-----------------------------------|
| Form:                      | liquid                            |
| Colour:                    | pale pink                         |
| Odour:                     | mild                              |
| pH value:                  | 9<br>(100 g/l, 20 °C)             |
| Melting point:             | not determined                    |
| onset of boiling:          | not determined                    |
| Flash point:               | > 93 °C                           |
| Flammability:              | hardly combustible                |
| Lower explosion limit:     | not determined                    |
| Ignition temperature:      | not determined                    |
| Density:                   | 1.01 g/cm <sup>3</sup><br>(20 °C) |
| Viscosity, kinematic:      | 32 mm <sup>2</sup> /s<br>(40 °C)  |
| Explosion hazard:          | not explosive                     |
| Fire promoting properties: | not fire-propagating              |

### 9.2. Other information

Self heating ability: It is not a substance capable of spontaneous heating.

Miscibility with water: miscible in all proportions

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

None known

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#### **10.4. Conditions to avoid**

Protect from sunlight. Avoid heat.

#### **10.5. Incompatible materials**

Substances to avoid:  
oxidizing agents

#### **10.6. Hazardous decomposition products**

Possible decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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### **SECTION 11: Toxicological Information**

#### **11.1. Information on toxicological effects**

##### Acute toxicity

Assessment of acute toxicity:  
Of moderate toxicity after single ingestion.

##### Irritation

Assessment of irritating effects:  
May cause severe damage to the eyes.

##### Respiratory/Skin sensitization

Assessment of sensitization:  
Based on the structure, there is no suspicion of a skin-sensitizing potential.

##### Germ cell mutagenicity

Assessment of mutagenicity:  
Based on available Data, the classification criteria are not met.

##### Carcinogenicity

Assessment of carcinogenicity:  
Based on available Data, the classification criteria are not met.

##### Reproductive toxicity

Assessment of reproduction toxicity:  
Based on available Data, the classification criteria are not met.

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#### Developmental toxicity

Assessment of teratogenicity:

Based on available Data, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on available Data, the classification criteria are not met.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on available Data, the classification criteria are not met.

#### Aspiration hazard

No aspiration hazard expected.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

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

Assessment biodegradation and elimination (H<sub>2</sub>O):

No data available concerning biodegradation and elimination.

### **12.3. Bioaccumulative potential**

Bioaccumulation potential:

No data available.

### **12.4. Mobility in soil**

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

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

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According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.7. Additional information

Other ecotoxicological advice:

Even leakage of small amounts in the subsoil can contaminate drinking water.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Observe national and local legal requirements.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## SECTION 14: Transport Information

### Land transport

ADR

|                              |  |
|------------------------------|--|
|                              | Not classified as a dangerous good under transport regulations |
| UN number:                   | Not applicable   |
| UN proper shipping name:     | Not applicable   |
| Transport hazard class(es):  | Not applicable   |
| Packing group:               | Not applicable   |
| Environmental hazards:       | Not applicable   |
| Special precautions for user | None known   |

RID

|                             |  |
|-----------------------------|--|
|                             | Not classified as a dangerous good under transport regulations |
| UN number:                  | Not applicable   |
| UN proper shipping name:    | Not applicable   |
| Transport hazard class(es): | Not applicable   |

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Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### **Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

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#### **14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

|                     |               |
|---------------------|---------------|
| Regulation:         | Not evaluated |
| Shipment approved:  | Not evaluated |
| Pollution name:     | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type:          | Not evaluated |

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### **SECTION 15: Regulatory Information**

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

##### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

#### **15.2. Chemical Safety Assessment**

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.

The general risk management measures related to the physico-chemical hazard of the product are communicated in chapter 2-14 of this SDS; they are to be considered by the (downstream) user

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when assessing the risks in accordance with his specific operating conditions and workplace environment.

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## SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

|                   |   |
|-------------------|---|
| Acute Tox.        | Acute toxicity  |
| Eye Dam./Irrit.   | Serious eye damage/eye irritation                     |
| Skin Sens.        | Skin sensitization                                    |
| Aquatic Acute     | Hazardous to the aquatic environment - acute          |
| Aquatic Chronic   | Hazardous to the aquatic environment - chronic        |
| Skin Corr./Irrit. | Skin corrosion/irritation                             |
| H302              | Harmful if swallowed.                                 |
| H318              | Causes serious eye damage.                            |
| H331              | Toxic if inhaled.                                     |
| H317              | May cause an allergic skin reaction.                  |
| H410              | Very toxic to aquatic life with long lasting effects. |
| H315              | Causes skin irritation.                               |
| H332              | Harmful if inhaled.                                   |
| H400              | Very toxic to aquatic life.                           |
| H319              | Causes serious eye irritation.                        |
| H412              | Harmful to aquatic life with long lasting effects.    |

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.