

# SAFETY DATA SHEET

## Purified and supernatant antibodies containing 2-chloroacetamide for “Research use only” applications

### 1. Product and company information

**Products:** purified and supernatant antibodies (proteins) in buffers with 2-chloroacetamide.

#### Manufacturer

Nordic-MUBio  
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### 2. Hazards identification

#### GHS-Classification

Skin sensitization	Category 1
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GHS Label elements, including precautionary statements



**Signal Word:** Warning

#### Hazard statements

H317 - May cause an allergic skin reaction.

#### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ eye protection/ face protection

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P363 - Wash contaminated clothing before reuse

P272 - Contaminated work clothing should not be allowed out of the workplace

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention

P501 - Dispose of contents/ container to an approved waste disposal plant

**Other information:** No information available.

### 3. Composition/Information on Ingredients

#### 3.1 Substances

Chemical Name	CAS-No	Weight %	Classification (Reg. 1272/2008)
2-Chloroacetamide	79-07-2	0.1-1	Acute Tox. 3 (H301) Skin Sens. 1 (H317) Repr. 2 (H361f)

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

### 4. First aid measures

**General advice:** If symptoms persist, call a physician.

**Eye contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air.

**Ingestion:** Clean mouth with water. Drink plenty of water.

**Notes to physician:** May cause sensitization of susceptible persons. Treat symptomatically.

### 5. Firefighting measures

**Flammable properties:** Not flammable.

**Flash point:** not determined.

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Explosion Data

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Specific hazards arising from the chemical:** Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

**Protective equipment and precautions for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6. Accidental release measures

**Personal precautions:** Use personal protective equipment. Avoid contact with the skin and the eyes.

**Environmental precautions:** Try to prevent the material from entering drains or water courses.

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

## 7. Handling and storage

**Advice on safe handling:** Wear personal protective equipment. Ensure adequate ventilation.

**Technical measures/Storage conditions:** Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

## 8. Exposure controls and personal protection

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

**Engineering measures:** Showers, Eyewash stations, Ventilation systems.

### Personal protective equipment

**Eye/face protection:** Tightly fitting safety goggles.

**Skin and body protection:** No special protective equipment required.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures:** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical characteristics

**Appearance:** No information available.

**Odor Threshold:** No information available.

**pH:** No information available.

**Flash point:** No information available.

**Decomposition temperature:** No information available.

**Melting point/range:** No information available.

**Explosion limits:** No information available.

**Specific Gravity:** No data available

**Evaporation rate:** No information available.

**Odor:** No information available.

**Physical State at 20°C:** No information available.

**Autoignition temperature:** No information available.

**Boiling point/boiling range:** No information available.

**Flammability Limits in Air:** No information available.

**Solubility:** No information available.

**Vapor density:** No data available

**Vapor Pressure at 20°C (kPa):** No information available

**VOC Content (%):** Not applicable

## 10. Stability and reactivity

**Stability:** Stable under recommended storage conditions.

**Incompatible products:** None known based on information supplied.

**Conditions to avoid:** None known based on information supplied.

**Hazardous decomposition products:** None known based on information supplied.

**Hazardous polymerization:** Hazardous polymerization does not occur.

## 11. Toxicological Information

### Acute toxicity

**Product Information:** May cause sensitization of susceptible persons.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Chloroacetamide	138 mg/kg (Rat)		

**Chronic toxicity:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

**Sensitization:** As a precaution the product should be treated as a sensitizer.

**Target Organ Effects:** None known.

## 12. Ecological information

**Ecotoxicity:** The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2-Chloroacetamide	IC50 Desmodesmus subspicatus (Green algae): 10 mg/l (72 h)	LC50 Leuciscus idus (Golden orfe): 19.8 mg/l (96 h)	EC50 Activated sludge (Bacteria): 1,174 mg/l (3 h)	EC50 Daphnia magna (Water flea): 14 mg/l (48 h)

Chemical Name	log Pow
2-Chloroacetamide	-0.53

## 13. Disposal considerations

**Waste disposal methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging:** Do not re-use empty containers.

## 14. Transport information

**DOT** Not dangerous goods

IATA Not dangerous goods

ADR Not dangerous goods

## 15. Regulatory information

### U.S. Federal Regulations

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard: yes

Chronic Health Hazard: no

Fire Hazard: no

Sudden Release of Pressure Hazard: no

Reactive Hazard: no

**Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

### International Regulations

**WHMIS Note:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## 16. Other information

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

H317 - May cause an allergic skin reaction.

H361f - Suspected of damaging fertility.

H301 - Toxic if swallowed.

**Hazard statements**

H317 - May cause an allergic skin reaction.

**Version 1**

**Revision Date** 10 May 2019

**Revision Note** No information available.

**Disclaimer:**

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