

# Safety Data Sheet

According to OSHA HazCom Standard [2012]

Printing date 04/05/2024

Version 1

Reviewed on 04/05/2024

## 1 Identification

### Product identifier

**Trade name:** NovaClean AFX

**Product code(s):** NC10-G

### Application of the substance / the mixture:

General Purpose Cleaner - Cleanrooms, Floors, Walls and Surfaces

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

#### Manufacturer/Supplier:

Micronova Manufacturing  
 3431 West Lomita Boulevard  
 Torrance, CA, 90505, USA  
 Tel: +1 (310)784-6990  
 Fax: +1 (310)784-6980  
 Email: dleonard@micronova-mfg.com  
 www.micronova-mfg.com

**Emergency telephone number:** CHEMTREC: +1 703-741-5970 (24h)

## 2 Hazard(s) identification

### Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

### Label elements

**GHS label elements** Not applicable.

**Hazard pictograms** Not applicable.

**Signal word** Not applicable.

**Hazard statements** Not applicable.

### Classification system:

#### NFPA ratings (scale 0 - 4)



#### HMIS-ratings (scale 0 - 4)



### Other hazards

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Composition/information on ingredients

**Description:** Mixture.

### Hazardous Components:

1310-58-3	potassium hydroxide	Skin Corrosion 1A, H314; Acute Toxicity - Oral 4, H302	<0.001%
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### Non-Hazardous Components:

7732-18-5	water		50-100%
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### Information on components:

7732-18-5	water		50-100%
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**4 First-aid measures**

**Description of first aid measures**

**After inhalation:** Move patient to fresh air, if symptom arise consult a doctor.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:**

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing agents:** Carbon dioxide (CO2). Dry chemical. Foam.

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** No special measures required.

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** No special measures required.

**Methods and material for containment and cleaning up:**

Dispose of the collected material according to local regulations.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

**PAC-1:**

1310-58-3	potassium hydroxide	0.18 mg/m <sup>3</sup>
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**PAC-2:**

1310-58-3	potassium hydroxide	2 mg/m <sup>3</sup>
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**PAC-3:**

1310-58-3	potassium hydroxide	54 mg/m <sup>3</sup>
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**7 Handling and storage**

**Precautions for safe handling**

No special measures required.

No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

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**Trade name:** NovaClean AFX**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls****Personal protective equipment**

**Breathing equipment:** Not required.

**Protection of hands:**

The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

**Body protection:** Protective work clothing

**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Liquid.

**Color:** Clear

**Odor threshold:** Not determined.

**pH-value at 20 °C (68 °F):** 8.2

**Melting point/Melting range:** 0 °C (32 °F)

**Boiling point/Boiling range:** 99 °C (210.2 °F)

**Flash point:** Not determined.

**Flammability (solid, gaseous):** Not determined.

**Auto-ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Danger of explosion:** Product does not present an explosion hazard.  
Not determined.

**Flammability Limits:**

**Lower:** Not Determined.

**Upper:** Not Determined.

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**Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

**Oxidizing properties** Not determined.

**Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

**Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.345 lbs/gal)

**Relative density at 20 °C (68 °F)** 1.025

**Vapor density** 0.62

**Evaporation rate** Not determined.

**Solubility in / Miscibility with Water:** Not determined.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.  
**Kinematic:** Not determined.  
**Water:** 99.0 %  
**VOC content:** 0.00 %

**Other information** No further relevant information available.

**10 Stability and reactivity**

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No further relevant information available.

**11 Toxicological information**

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:** No further relevant information available.

**Primary irritant effect:**

**on the skin:** No irritant effect.  
**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

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<b>NTP (National Toxicology Program)</b>
None of the ingredients are listed.
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients are listed.

**12 Ecological information**

**Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability**

Proprietary Surfactant: according to OECD 301B (after 28 days >60% ThCO2), the surfactant is READY BIODEGRADABLE

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information**

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

**13 Disposal considerations**

**Uncleaned packagings:**

**Recommendation:**

Disposal must be made according to official regulations.  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

**14 Transport information**

**UN-Number**

DOT, ADR, IMDG, IATA Not applicable.

**UN proper shipping name**

DOT, ADR, IMDG, IATA Not applicable.

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA  
Class Not applicable.

**Packing group**

DOT, ADR, IMDG, IATA Not applicable.

**Environmental hazards:** Not applicable.

**Special precautions for user** Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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**15 Regulatory information**

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

No further relevant information available.

**Sara**

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**USA - TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**Hazardous Air Pollutants**

None of the ingredients are listed.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value)**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** Not applicable.

**Hazard pictograms** Not applicable.

**Signal word** Not applicable.

**Hazard statements** Not applicable.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Contact:**

**Date of preparation / last revision** 04/05/2024

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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Acute Toxicity - Oral 4: Acute toxicity – Category 4  
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A