

Safety Data Sheet
according to HPR, Schedule 1

Printing date 05/03/2024

Version 1

Reviewed on 05/03/2024

1 Identification**Product identifier****Trade name:** Megaclean**Product code(s):** Megaclean - MC1-Q, MC1-G,**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
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Emergency telephone number:

CHEMTREC Canada: +1 703-741-5970
+1 (800)424-9300

2 Hazard identification**Classification of the substance or mixture**

Eye Irritation - Category 2A H319 Causes serious eye irritation.

Label elements**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS07

Signal word Warning**Hazard statements**

Causes serious eye irritation.

Precautionary statements:

Wash thoroughly after handling.

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

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

If eye irritation persists: Get medical advice/attention.

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2

Fire = 0

Reactivity = 0

3 Composition/Information on ingredients**Description:** Mixture: consisting of the following components.

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Hazardous Components:		
112-34-5	2-(2-butoxyethoxy)ethanol Eye Irritation - Category 2A, H319	30-60% w/w *
68439-46-3	(C9-C11) Alkyl alcohol, ethoxylate Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302	≥1-<3% w/w *

* Actual concentration ranges are withheld as a trade secret.

Information on components:			
112-34-5	2-(2-butoxyethoxy)ethanol	Eye Irritation - Category 2A, H319	30-60% w/w

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. Then consult a doctor.

After swallowing: Call for a doctor immediately.

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

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Dilute with plenty of water.

Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

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.

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.

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

Further information about storage conditions: Keep receptacle tightly sealed.

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:

112-34-5 2-(2-butoxyethoxy)ethanol

TLV (USA)	TWA: 10* ppm *Inhalable fraction and vapor
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Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands:



Protective gloves

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:



Tightly sealed goggles

Goggles recommended during refilling.

Body protection: Protective work clothing

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Trade name: Megaclean**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:****Form:** Liquid.**Color:** Colorless.**Odor threshold:** Not determined.**pH-value:** Not determined.**Melting point/Melting range:** Not determined.**Boiling point/Boiling range:** Not determined.**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.**Flammability Limits:****Lower:** Not Determined.**Upper:** Not Determined.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**Oxidizing properties** Not determined.**Vapor pressure:** Not determined.**Density:** Not determined.**Relative density** 0.926-0.946**Vapor density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with****Water:** Fully miscible.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic:** Not determined.**Kinematic:** Not determined.**Other information**

No further relevant information available.

10 Stability and reactivity**Reactivity**

No data available.

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.

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Trade name: Megaclean**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:****112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	LD50	5,660 mg/kg (Rat)
Dermal	LD50	4,000 mg/kg (rabbit)

Primary irritant effect:**on the eye:** Strong irritant with the danger of severe eye injury.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

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

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**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.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation:** Do not allow product to reach sewage system.**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.

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Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number	
DOT/TDG, ADR, IMDG, IATA	Not applicable.
UN proper shipping name	
DOT/TDG, ADR, IMDG, IATA	Not applicable.
Transport hazard class(es)	
DOT/TDG, ADR, ADN, IMDG, IATA	
Class	Not applicable.
Packing group	
DOT/TDG, 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.

15 Regulatory information

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

No further relevant information available.

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Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

112-34-5	2-(2-butoxyethoxy)ethanol
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USA - TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Non-Domestic Substances List (NDSL)

None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%)

112-34-5	2-(2-butoxyethoxy)ethanol
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GHS label elements

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Hazard pictograms



GHS07

Signal word Warning

Hazard statements

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Precautionary statements

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If eye irritation persists: Get medical advice/attention.

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 the latest revision of the safety data sheet 05/03/2024

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent