

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 04/25/2024

Version 1

Reviewed on 04/25/2024

**1 Identification****Product identifier****Trade name:** NovaClenz**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 Canada: +1 703-741-5970  
001-703-741-5970 (24/7)

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

Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour.  
Eye Irritation - Category 2A H319 Causes serious eye irritation.  
Carcinogenicity - Category 1A H350 May cause cancer.

**Label elements****GHS label elements**

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

**Hazard pictograms**

GHS02 GHS07 GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

ethanol

**Hazard statements**

Highly flammable liquid and vapour.  
Causes serious eye irritation.  
May cause cancer.

**Precautionary statements:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Use explosion-proof [electrical/ventilating/lighting] equipment.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
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.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Trade name:** NovaClenz

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



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



### 3 Composition/Information on ingredients

**Description:** Mixture: consisting of the following components.

**Hazardous Components:**

64-17-5	ethanol Flammable Liquids - Category 2, H225; Carcinogenicity - Category 1A, H350; Eye Irritation - Category 2A, H319	30-60% w/w *
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\* Actual concentration ranges are withheld as a trade secret.

**Information on components:**

64-17-5	ethanol Flammable Liquids - Category 2, H225; Carcinogenicity - Category 1A, H350; Eye Irritation - Category 2A, H319	30-60% w/w
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### 4 First-aid measures

**Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product.

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

**After skin contact:** Immediately rinse with water.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**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**

Use extinguishing measures appropriate to local circumstances and the environment.

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**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.

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**Trade name:** NovaClenz**Environmental precautions:**

Prevent seepage into sewage system, workpits and cellars.  
Dilute with plenty of water.

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

Ensure adequate ventilation.  
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:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

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

**Further information about storage conditions:**

Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/ Personal protection**

**Control parameters** No further information available

**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****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.

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**Trade name:** NovaClenz

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

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

**General Information**
**Appearance:**

**Form:** Liquid.

**Odor threshold:** Not determined.

**pH-value:** Not determined.

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** 78 °C

**Flash point:** 18.3 °C

**Flammability (solid, gaseous):** Highly flammable.

**Auto-ignition temperature:** 425 °C

**Decomposition temperature:** Not determined.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

**Flammability Limits:**

**Lower:** Not Determined.

**Upper:** Not Determined.

**Explosion limits:**

**Lower:** 3.5 Vol %

**Upper:** 15 Vol %

**Oxidizing properties** Not determined.

**Vapor pressure at 20 °C:** 59 hPa

**Vapor pressure at 50 °C:** 280 hPa

**Density at 20 °C:** 0.79 g/cm<sup>3</sup>

**Relative density** Not determined.

**Vapor density** Not determined.

**Evaporation rate** Not determined.

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**Trade name:** NovaClenz

**Solubility in / Miscibility with**

**Water:** Fully miscible.

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

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Solids content:** 0.0 %

**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.

**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:**

**64-17-5 ethanol**

Oral	LD50	7,060 mg/kg (Rat)
Inhalative	LC50/4h	20,000 mg/L (Rat)

**Primary irritant effect:**

**on the eye:** Irritating effect.

**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)**

All components have the value 1.

**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.

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**Trade name:** NovaClenz

**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**

**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.

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

**14 Transport information**

**UN-Number**

DOT/TDG, ADR, IMDG, IATA UN1170

**UN proper shipping name**

DOT/TDG Ethanol solutions  
ADR 1170 Ethanol solutions  
IMDG ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
IATA ETHANOL SOLUTION

**Transport hazard class(es)**

DOT/TDG (Transport dangerous goods):



Class 3 Flammable liquids  
Label 3

ADR, IMDG, IATA



Class 3 Flammable liquids  
Label 3

**Packing group**

DOT/TDG, ADR, IMDG, IATA II

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Warning: Flammable liquids

**Hazard identification number (Kemler code):** 33

**EMS Number:** F-E,S-D

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<b>Stowage Category</b>	A
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

**15 Regulatory information**

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

No further relevant information available.

**Sara**

<b>Section 355 (extremely hazardous substances):</b>
None of the ingredients are listed.
<b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
<b>USA - TSCA (Toxic Substances Control Act):</b>
None of the ingredients is listed.
<b>Canadian Domestic Substances List (DSL)</b>
All ingredients are listed.
<b>Canadian Non-Domestic Substances List (NDSL)</b>
None of the ingredients are listed.
<b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
All ingredients are listed.
<b>Canadian Ingredient Disclosure list (limit 1%)</b>
None of the ingredients are listed.

**GHS label elements**

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

**Hazard pictograms**



GHS02   GHS07   GHS08

**Signal word** Danger

**Hazard-determining components of labeling:**

ethanol

**Hazard statements**

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause cancer.

**Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Wash thoroughly after handling.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 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** 04/25/2024**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