

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 22.02.2024

Version number 1

Revision: 22.02.2024

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** NovaHol**Product Code(s):** NH1-G, NH1-Q**UFI:** 2000-A0PG-V00E-2U0H**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use:** Product supplied for professional use only**Technical function** Filtered Detergent with Isopropanol for drying action**Application of the substance / the preparation:** Cleanroom Surface Cleaner**1.3 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

**1.4 Emergency telephone number(s):**

CHEMTREC Ireland: +353 1 901 4670

Ireland - National Poisons Information Centre: 01 837 9964 or 01 809 2566 (healthcare professionals only).

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms:**

GHS02 GHS07

**Signal word:** Warning**Hazard-determining components of labelling:**

Propan-2-ol

**Hazard statements:**

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Labelling requirements in accordance with Article 11 / Annex VII A of Regulation (EC) No 648/2004 on detergents

Contains: &lt;5% non-ionic surfactants

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

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

### Hazardous components:

CAS: 67-63-0	Propan-2-ol	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥20-≤25%
EINECS: 200-661-7			

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**After inhalation:** Move patient to fresh air, if symptoms persist 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. If symptoms persist, consult a doctor.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

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

No further relevant information available.

### 5.3 Advice for firefighters

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

## SECTION 6: Accidental release measures

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

**6.2 Environmental precautions** Dilute with plenty of water.

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

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

**6.4 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.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:** No special measures required.

**7.2 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:** Keep container tightly closed.

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

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters** No further information available

**Ingredients with limit values that require monitoring at the workplace:**

**67-63-0 Propan-2-ol**

OEL	Short-term value: 400 ppm Long-term value: 200 ppm
Sk	

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

**8.2 Exposure controls**

**Individual protection measures, such as 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.

**Respiratory protection:**

In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Hand protection**



Protective gloves.

The glove material has to 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.

Select the glove material based on a 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

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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 must be determined by the manufacturer of the protective gloves.

**Eye/face protection**

Safety goggles (EN 166).

Goggles recommended during refilling

**Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

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

##### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	Clear.
<b>Odour:</b>	Alcohol-like.
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	25.6 °C
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	7
<b>VOC (EC):</b>	
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>Water:</b>	Fully miscible.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density</b>	0.8
<b>Vapour density</b>	Not determined.

#### 9.2 Other information

<b>Appearance:</b>	
<b>Form:</b>	Liquid.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
<b>Softening point/range</b>	
<b>Oxidising properties</b>	Not determined.
<b>Evaporation rate at 20 °C</b>	>1

#### Information with regard to physical hazard classes

<b>Explosives</b>	Not applicable.
<b>Flammable gases</b>	Not applicable.
<b>Aerosols</b>	Not applicable.
<b>Oxidising gases</b>	Not applicable.
<b>Gases under pressure</b>	Not applicable.

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<b>Flammable liquids</b>	Flammable liquid and vapour.
<b>Flammable solids</b>	Not applicable.
<b>Self-reactive substances and mixtures</b>	Not applicable.
<b>Pyrophoric liquids</b>	Not applicable.
<b>Pyrophoric solids</b>	Not applicable.
<b>Self-heating substances and mixtures</b>	Not applicable.
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable.
<b>Oxidising liquids</b>	Not applicable.
<b>Oxidising solids</b>	Not applicable.
<b>Organic peroxides</b>	Not applicable.
<b>Corrosive to metals</b>	Not applicable.
<b>Desensitised explosives</b>	Not applicable.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

#### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

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

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

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

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

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Based on available data, the classification criteria are not met.

##### LD/LC50 values:

##### 67-63-0 Propan-2-ol

Oral	LD50	5,840 mg/kg (Rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/L (Rat)

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** May cause drowsiness or dizziness.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

#### 11.2 Information on other hazards

##### 11.2.1 Endocrine disrupting properties

None of the ingredients are listed.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### 67-63-0 Propan-2-ol

LC50/96h	9,640 mg/L (Fish)
NOEC	1,050 mg/L (Microorganisms)
LC50/24h	>10,000 mg/L (Daphnia)

**12.2 Persistence and degradability** No further relevant information available.

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

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

#### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

##### Additional environmental information:

##### General notes:

Water hazard class 1 (German Regulation) (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.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Recommendation:** Do not allow product to reach sewage system.

##### Uncleaned packaging:

##### Recommendation:

Disposal must be made in accordance with official regulations.

Packaging that may not be cleansed must be disposed of in the same manner as the product.

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

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR, IMDG, IATA Not applicable.

#### 14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable.

#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA  
Class Not applicable.

#### 14.4 Packing group

ADR, IMDG, IATA Not applicable.

**14.5 Environmental hazards** Not applicable.

**14.6 Special precautions for user** Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

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**Trade name:** NovaHol**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients are listed.**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients are listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients are listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients are listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients are listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients are listed.

**15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.**SECTION 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.

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Date of previous version:** 12.05.2023**Abbreviations and acronyms:**

WEL: Workplace Exposure Limits

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3