

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

Date of issue 12/04/2025

Version number 1

Revision: 12/04/2025

**1 Identification****Product identifier****Trade name:** NovaHol**Other means of identification****Product code(s):** NH1-G, NH1-Q**Application of the substance / the mixture:** Cleanroom Surface Cleaner**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: quality@micronova-mfg.com  
www.micronova-mfg.com

**Emergency telephone number:** CHEMTREC Canada: +1 703-741-5970**2 Hazard identification****Classification of the substance or mixture**

Flammable liquids – Category 3	H226 Flammable liquid and vapour.
Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Specific target organ toxicity (single exposure) – Category 3	H336 May cause drowsiness or dizziness.

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

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

**Hazard pictograms**

GHS02 GHS07

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

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.

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.

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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.

**Additional Information:**

**Information pertaining to particular dangers for man and environment:**

**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:**

67-63-0	Propan-2-ol Flammable liquids – Category 2, H225; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H336	≥20-≤30% w/w *
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\* Actual concentration ranges are withheld as a trade secret.

**Information on components:**

7732-18-5	Water USP	60-80% 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:** 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:**

Mouth respiratory protective device.

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Wear fully protective suit.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**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**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**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:** No special requirements.

**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** No further information available

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

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

EL (Canada)	STEL: 400 ppm TWA: 200 ppm
EV (Canada)	STEL: 400 ppm TWA: 200 ppm
PEL (USA)	TWA: 980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	STEL: 1225 mg/m <sup>3</sup> , 500 ppm TWA: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	STEL: 984 mg/m <sup>3</sup> , 400 ppm TWA: 491 mg/m <sup>3</sup> , 200 ppm BEI, A4

**Ingredients with biological limit values:**

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

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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**Additional information:** The lists that were valid during the creation were used as basis.

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## 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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### 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

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Alcohol-like
<b>Odor threshold:</b>	Not determined.
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	82 °C
<b>Flammability:</b>	Flammable.
<b>Explosion limits:</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-value at 20 °C:</b>	7

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**Viscosity:**  
**Kinematic:** Not determined.  
**Dynamic:** Not determined.  
**Solubility in / Miscibility with Water:** Fully miscible.  
**Partition coefficient (n-octanol/water):** Not determined.  
**Vapor pressure:** Not determined.  
**Density:** Not determined.  
**Relative density** 0.8  
**Vapor density** Not determined.  
**Particle characteristics** Not applicable.

**Other information**

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

**Flammability Limits:**

**Lower:** Not Determined.  
**Upper:** Not Determined.  
**Oxidizing properties** Not determined.  
**Evaporation rate at 20 °C** >1

**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:**

<b>LD/LC50 values that are relevant for classification:</b>		
<b>67-63-0 Propan-2-ol</b>		
Oral	LD50	5,840 mg/kg (Rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/L (Rat)

**Primary irritant effect:**  
**on the skin:** No irritant effect.  
**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

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

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**Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>	
67-63-0   Propan-2-ol	3
<b>NTP (National Toxicology Program)</b>	
None of the ingredients are listed.	

**12 Ecological information**

**Toxicity**

<b>Aquatic toxicity:</b>	
<b>67-63-0 Propan-2-ol</b>	
LC50/96h	9,640 mg/L (Fish)
NOEC	1,800 mg/L (algae)
LC50/24h	>10,000 mg/L (Daphnia Magna)

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

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

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

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects**

**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.

**13 Disposal considerations**

**Waste treatment methods**

**Recommendation:**

Disposal must be made in accordance with official regulations.

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 cleaning agents.

**14 Transport information**

**UN-Number**

DOT/TDG, ADR, IMDG, IATA

UN1993

**UN proper shipping name**

DOT/TDG

Flammable liquids, n.o.s. (Isopropanol)

ADR

1993 Flammable liquids, n.o.s. (Isopropanol)

IMDG, IATA

FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

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**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** III

**Environmental hazards:** Not applicable.

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

**Transport/Additional information:**

**DOT/TDG**

**Quantity limitations** On passenger aircraft/rail: 60 L  
On cargo aircraft only: 220 L

**ADR**

**Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

**IMDG**

**Limited quantities (LQ)** 5L  
**Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

**Special precautions for user**

**Hazard identification number (Kemler code):** Warning: Flammable liquids

**EMS Number:** 30

**Stowage Category:** F-E, S-E  
A

**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):**

67-63-0 | Propan-2-ol

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

All components have the value ACTIVE.

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<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>	
None of the ingredients are listed.	
<b>Canadian Ingredient Disclosure list (limit 1%)</b>	
67-63-0	Propan-2-ol
<b>Per- and polyfluoroalkyl substances (PFAS)</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

**Signal word** Warning

**Hazard-determining components of labeling:**

Propan-2-ol

**Hazard statements**

- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.
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**Precautionary statements**

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- P312 Call a POISON CENTER/doctor if you feel unwell.
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- P405 Store locked up.
- P501 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.

**Date of preparation** 12/04/2025

**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)

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**Trade name:** NovaHol

NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent