Safety Data Sheet

Section 1 – Identification of the substance/preparation and of the company/undertaking

Identification of the substance or mixture

Product name: Glycerol
Catalog number: 800-040-**
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Company details

Wisent Inc.
3645 Principale
Saint-Jean-Baptiste, Qc
Canada J0L2B0
Telephone: +1 (450) 446-2660
Toll-free in Canada: 1-888-947-3681
Fax: +1 (450) 446-7038
Emergency telephone: +1 (514) 777-1312

Wisent Inc.
PO Box 131
St-Bruno, Qc
Canada, J3V 4P8

Section 2 – Hazards identification

Classification of the substance or mixture
Not a hazardous substance or mixture.
GHS Label elements, including precautionary statements
Not a hazardous substance or mixture.
Hazards not otherwise classified (HNOC) or not covered by GHS
None

Section 3 – Composition/Information on ingredients

Component	CAS-No	EC-No.	Classification	Concentration
Glycerol	56-81-5	200-289-5	-	<= 100 %

Section 4 – First aid measures

Description of first aid measures
General advice
Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed
No data available

Section 5 – Firefighting measures

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture
Carbon oxides
Advice for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.
Further information
No data available

Section 6 – Accidental release measures

Personal precaution, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
Methods and material for containment and cleaning up
Keep in suitable, closed containers for disposal.
Environmental precautions
No special environmental precautions required.
Reference to other sections
For disposal see section 13.

Section 7 – Handling and storage

Precaution for safe handling
For precautions see section 2.
Condition for safe storage, including any incapability
Keep container tightly closed in a dry and well-ventilated place. hygroscopic Storage class (TRGS 510): 10: Combustible liquids
Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated

Section 8 – Exposure controls/personal protection

Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10.000000 mg/m3	Canada. British Columbia OEL
		TWA	3.000000 mg/m3	Canada. British Columbia OEL
		TWA	10.000000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWAEV	10.000000 mg/m3	Canada. Ontario OELs
		TWAEV	10 mg/m3	Québec. Règlement sur la santé et la sécurité du travail, Annexe 1 Partie 1: Valeurs d'exposition admissibles des contaminants de l'air
		VEMP	10.000000 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	10.000000 mg/m3	Canada. British Columbia OEL
		TWA	3.000000 mg/m3	Canada. British Columbia OEL
		TWA	10.000000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWAEV	10.000000 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

Appropriate engineering controls

General industrial hygiene practice

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

Section 9 – Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid
Odour	No data availaible
Odour Threshold	No data available
pH	5.5 – 8
Melting point/freezing point	Melting point/range: 20 °C (68 °F)
Initial boiling point and boiling range	182 °C 360 °F at 27 hPa
Flash point	160 °C (320 °F) - closed cup
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Evaporation rate	No data available
Flammability	No data available
Upper explosion limit	Upper explosion limit: 19 %(V) at 1013 hPa
Lower explosion limit	Lower explosion limit: 2.7 %(V) at 1013 hPa
Vapour pressure	0.0033 hPa at 50 °C (122 °F)
Vapour density	3.18 - (Air = 1.0)
Relative density	1.25 g/mL
Relative vapour density	No data available
Specific gravity	No data available
Water Solubility	Soluble
Solubility (solvents)	No data available
Partition coefficient: n-octanol/water	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Auto-ignition temperature	No data available

Decomposition temperature	No data available
Bulk density	No data available
Surface tension	63.4 mN/m at 20 °C (68 °F)

Section 10 – Stability and reactivity

Reactivity
No data available
Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
No data available
Condition to avoid
No data available
Incompatible materials
Strong oxidizing agents
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

Section 11 – Toxicological information

Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - 12,600 mg/kg
Inhalation: No data available
LD50 Dermal - Rabbit - > 10,000 mg/kg
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
Additional Information
RTECS: MA8050000

Prolonged or repeated exposure may cause: Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Kidney - Irregularities - Based on Human Evidence

Section 12 –Ecological information

Toxicity
Toxicity to fish
No data available
Persistence and degradability
Biodegradability
aerobic - Exposure time 14 d Result: 76 - 82 % - Readily biodegradable. (OECD Test Guideline 301C)
Bioaccumulative potential
Bioaccumulation is unlikely.
Mobility in soil
No data available
Results of PBT and vPvB assessment PBT/vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects
No data available

Section 13 – Disposal considerations

Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

Section 14 – Transport information

DOT (US)
Not regulated as dangerous
IATA
Not regulated as dangerous

IMDG
Not regulated as dangerous

Section 15 – Regulatory information

WHMIS Classification
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Section 16 – Other information

MSDS Date of revision: September 2024

For research use only. Not use for diagnostic procedures.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.