



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 17-May-2024

Revision Number 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) CAT 652
Product Name Glyceryl trinitrate solution Assay Standard
Form Not applicable
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory use
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier

British Pharmacopoeia Commission
MHRA
10 South Colonnade
Canary Wharf
London E14 4PU
United Kingdom

Tel : +44 (0)20 3080 6561
eMail: bpcrs@mhra.gov.uk

For further information, please contact

E-mail address bpcrs@mhra.gov.uk

1.4. Emergency telephone number

Emergency Telephone +44 (0)20 3080 6561 (Monday - Friday: 8am - 5pm)

Emergency Telephone - §45 - (EC)1272/2008

Europe	112
Austria	No information available
Bulgaria	



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Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of
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	High Concern (SVHC) for Authorisation	Substances
Propylene Glycol	-	-
glycerol trinitrate	-	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature

Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Propylene Glycol 57-55-6	80 - 100	-	200-338-0	-			
glycerol trinitrate 55-63-0	0.1 - 1	-	200-240-8 (603-034-00 -X)	Acute Tox. 2 (H300) Acute Tox. 1 (H310) Acute Tox. 2 (H330) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) Unst. Expl. (H200)			

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Propylene Glycol 57-55-6	20000	20800	No data available	No data available	No data available
glycerol trinitrate	100	9560	No data available	No data available	No data available



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Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
55-63-0					

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth.

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

Symptoms No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.



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Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



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Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Propylene Glycol 57-55-6	-	-	-	-	TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³
glycerol trinitrate 55-63-0	* STEL: 0.19 mg/m ³ TWA: 0.095 mg/m ³ TWA: 0.01 ppm	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL 0.02 ppm STEL 0.19 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.095 mg/m ³ TWA: 0.01 ppm STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
glycerol trinitrate 55-63-0	TWA: 0.095 mg/m ³ TWA: 0.01 ppm STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*	TWA: 0.1 mg/m ³ Sk* Ceiling: 0.2 mg/m ³	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.1 mg/m ³ STEL: 0.02 ppm STEL: 0.2 mg/m ³ Sk*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
glycerol trinitrate 55-63-0	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm	TWA: 0.01 ppm TWA: 0.094 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.094 mg/m ³ Peak: 0.01 ppm	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm	TWA: 0.095 mg/m ³ TWA: 0.01 ppm STEL: 0.19 mg/m ³



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	STEL: 0.19 mg/m ³ Sk*		Peak: 0.094 mg/m ³ Sk*	STEL: 0.19 mg/m ³ Sk*	STEL: 0.02 ppm Sk* SZ+
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Propylene Glycol 57-55-6	TWA: 10 mg/m ³ TWA: 150 ppm TWA: 470 mg/m ³ STEL: 1410 mg/m ³ STEL: 30 mg/m ³ STEL: 450 ppm	-	-	TWA: 7 mg/m ³	TWA: 7 mg/m ³
glycerol trinitrate 55-63-0	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.095 mg/m ³ TWA: 0.01 ppm Sk*	TWA: 0.05 ppm TWA: 0.46 mg/m ³ Sk*	TWA: 0.095 mg/m ³ TWA: 0.01 ppm STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Propylene Glycol 57-55-6	-	-	-	TWA: 25 ppm TWA: 79 mg/m ³ STEL: 37.5 ppm STEL: 118.5 mg/m ³	TWA: 100 mg/m ³
glycerol trinitrate 55-63-0	TWA: 0.095 mg/m ³ TWA: 0.01 ppm STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.09 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.095 mg/m ³ STEL: 0.19 mg/m ³ Sk*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
glycerol trinitrate 55-63-0	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.19 mg/m ³ STEL: 0.02 ppm Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.095 mg/m ³ Sk* Ceiling: 0.9 mg/m ³	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*	TWA: 0.01 ppm TWA: 0.094 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³ Sk*
Chemical name	Sweden		Switzerland	United Kingdom	
Propylene Glycol 57-55-6	-		-	TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1422 mg/m ³ STEL: 30 mg/m ³	
glycerol trinitrate 55-63-0	NGV: 0.01 ppm NGV: 0.095 mg/m ³ Bindande KGV: 0.02 ppm Bindande KGV: 0.19 mg/m ³		TWA: 0.01 ppm TWA: 0.09 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³	TWA: 0.01 ppm TWA: 0.095 mg/m ³ STEL: 0.02 ppm STEL: 0.19 mg/m ³	



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	Sk*	Sk*	Sk*
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Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
glycerol trinitrate 55-63-0	-	Check (-)	-	-	-
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
glycerol trinitrate 55-63-0	-	15 µmol/mol Creatinine (urine - Nitroglycols at end of exposure)	-	-	-
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
glycerol trinitrate 55-63-0	-	-	0.5 µg/L (plasma/serum - 1,2-Glycerin dinitrate end of shift) 2.75 nmol/L (plasma/serum - 1,2-Glycerin dinitrate end of shift) 0.5 µg/L (plasma/serum - 1,3-Glycerin dinitrate end of shift) 2.75 nmol/L (plasma/serum - 1,3-Glycerin dinitrate end of shift)	15 µmol/mol creatinine - urine (total Nitroglycols) - end of the period of exposure	

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves.



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Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Oily
Colour	colourless
Odour	Slight.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known



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Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.



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SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

No information available

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	99,999.00 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	99,999.0000 mg/l
ATEmix (inhalation-vapour)	99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	
glycerol trinitrate	= 100 mg/kg (Rat)	> 9560 mg/kg (Rat)	



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Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information



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12.1. Toxicity

Ecotoxicity Harmful to aquatic life.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Propylene Glycol	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	-	EC50: >1000mg/L (48h, Daphnia magna)
glycerol trinitrate	-	LC50: 0.87 - 3.25mg/L (96h, Lepomis macrochirus) LC50: 0.87 - 2.21mg/L (96h, Lepomis macrochirus) LC50: 2 - 3.8mg/L (96h, Oncorhynchus mykiss) LC50: 1.6 - 2.6mg/L (96h, Pimephales promelas) LC50: 2.2 - 3.7mg/L (96h, Pimephales promelas)	-	EC50: 46 - 55mg/L (48h, Daphnia magna) EC50: 38 - 55mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
Propylene Glycol	-0.92

12.4. Mobility in soil

Mobility in soil No information available.



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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Propylene Glycol	The substance is not PBT / vPvB
glycerol trinitrate	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	UN1204
14.2 UN proper shipping name	Nitroglycerin solution in alcohol
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1204, Nitroglycerin solution in alcohol, 3, II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
ERG Code	3L



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IMDG

14.1 UN number or ID number	UN1204
14.2 UN proper shipping name	Nitroglycerin solution in alcohol
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1204, Nitroglycerin solution in alcohol, 3, II
14.5 Marine pollutant	NP
Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
EmS-No.	F-E, S-D No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1204
14.2 UN proper shipping name	Nitroglycerin solution in alcohol
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1204, Nitroglycerin solution in alcohol, 3, II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	601
Classification code	D

ADR

14.1 UN number or ID number	UN1204
14.2 UN proper shipping name	Nitroglycerin solution in alcohol
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1204, Nitroglycerin solution in alcohol, 3, II, (B)
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	601
Classification code	D
Tunnel restriction code	(B)

SECTION 15: Regulatory information

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

National regulations



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France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Propylene Glycol 57-55-6	RG 84	-
glycerol trinitrate 55-63-0	RG 72	-

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

TA Luft (German Air Pollution Control Regulation)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).



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European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
glycerol trinitrate - 55-63-0	75.	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA

LGC, to the best of its ability, has confirmed that the chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021."

DSL/NDSL

Contact supplier for inventory compliance status

EINECS/ELINCS

Contact supplier for inventory compliance status

ENCS

Contact supplier for inventory compliance status

IECSC

Contact supplier for inventory compliance status

KECL

Contact supplier for inventory compliance status

PICCS

Contact supplier for inventory compliance status

AIIC

Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



SAFETY DATA SHEET

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Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H200 - Unstable explosive

H300 - Fatal if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

Ceiling

Maximum limit value

STEL

Sk*

STEL (Short Term Exposure Limit)

Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method



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Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 17-May-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a



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End of Safety Data Sheet