NANO TECHNOLOGY
CHEMICALS

Safety Data Sheet

Glycerine

The pages that follow are the Safety Data Sheet as issued by the supplier/manufacturer. They are provided unchanged by Nano Technology Chemicals (NTC). Refer to Section 1 of the attached SDS for the responsible party and emergency telephone number.

Questions about this product or document:

Nano Technology Chemicals, Charlotte, NC
Phone: 704-659-3682
Email: sales@nanotechnologychemicals.com
Web: nanotechnologychemicals.com

Cover sheet date: October 12, 2026. For the SDS revision date, see the attached document.

In an emergency, use the emergency telephone number in Section 1 of the attached SDS.

Safety Data Sheet
Glycerine 99.5% Tech

Version 1.3 Revision Date: 11/11/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Glycerine 99.5% Tech

Recommended use of the chemical and restrictions on use

Recommended use : Industrial Chemical
Manufacture of resins.
Restrictions on use : None known.

Manufacturer or supplier's details

Company : Univar Solutions USA
Address 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

CAS-No.	Chemical name	Weight percent
56-81-5	Glycerine	80 - 100

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.
If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
In case of skin contact : Wash off with soap and plenty of water.
In case of eye contact : Protect unharmed eye.
If eye irritation persists, consult a specialist.
If swallowed : Keep respiratory tract clear.

Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use an extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	Use a water spray to cool fully closed containers.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	:	No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
56-81-5	Glycerine	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1

		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
		PEL (Mist - total fraction)	10 mg/m3	CAL PEL
		PEL (Mist - respirable fraction)	5 mg/m3	CAL PEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Protective suit
Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid, viscous
Colour : Clear, colorless
Odour : slight, odorless
Odour Threshold : No data available
pH : neutral
Freezing Point (Melting point/range) : 18 - 22 °C (64 - 72 °F)
Boiling Point (Boiling point/boiling range) : 288 - 295 °C (550 - 563 °F)
(1013 hPa)

Flash point : 198.9 °C (390.0 °F)
Method: Pensky-Martens closed cup

Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : 0.0025 mmHg @ 50 °C (122 °F)

Relative vapour density : 3.2 @ 20 - 25 °C (68 - 77 °F)
(Air = 1.0)

Relative density : 1.26 @ 20 - 25 °C (68 - 77 °F)
Reference substance: (water = 1)

Density	:	1.26 g/cm3 @ 20 - 25 °C (68 - 77 °F)
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	completely miscible Solvent: Alcohol slightly soluble Solvent: Acetone insoluble Solvent: Ether insoluble Solvent: Chloroform
Partition coefficient: n-octanol/water	:	log Pow: -2.6
Auto-ignition temperature	:	370 - 400 °C
Thermal decomposition	:	> 200 °C
Viscosity		
Viscosity, dynamic	:	1,410 mPa.s @ 20 °C (68 °F)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	:	Strong oxidizing agents Strong acids Nitric acid chromium trioxide potassium chlorate potassium permanganate Acetic anhydride Chromium oxides Alkali metals metal hydrides peroxides
Hazardous decomposition products	:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Thermal decomposition can lead to release of irritating gases and vapours.

Nitrogen oxides (NOx)
acrolein

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

56-81-5:

Acute oral toxicity	:	LD50 (Rat, female): 27,200 mg/kg
Acute dermal toxicity	:	LD50 (Guinea pig, male and female): 45 mL/kg Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

56-81-5:
Species: Rabbit
Exposure time: 24 h
Result: Not irritating to skin

Serious eye damage/eye irritation

Components:

56-81-5:
Species: Rabbit
Result: Not irritating to eyes

Respiratory or skin sensitisation

Components:

56-81-5:
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

56-81-5:

Genotoxicity in vitro	:	Test Type: DNA damage and/or repair Species: rat hepatocytes Result: negative
Germ cell mutagenicity - Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

56-81-5:
Species: Rat, (male and female)
Application Route: Oral
Exposure time: 1 - 2 yrs
Dose: 0, 5, 10, 20 %diet
NOAEL: 20 % diet

Result: did not display carcinogenic properties

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.
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.
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP		No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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

Components:

56-81-5:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: 0, 2000 mg/kg bw General Toxicity - Parent: NOAEL: 2,000 mg/kg body weight General Toxicity F1: NOAEL: 2,000 mg/kg body weight Fertility: NOAEL: 2,000 mg/kg body weight Result: No reproductive effects.
Effects on foetal development	:	Species: Rat Application Route: Oral Dose: 0, 13.1, 60.8, 282, 1310 milligram per kilogram Duration of Single Treatment: 10 d General Toxicity Maternal: NOAEL: 1,310 mg/kg body weight Teratogenicity: NOAEL: 1,310 mg/kg body weight Developmental Toxicity: NOAEL: 1,310 mg/kg body weight Result: No teratogenic effects
Teratogenicity - Assessment	:	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

Product:

Biodegradability : Remarks: Readily biodegradable

Components:

56-81-5:

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922 Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation): Not regulated as a dangerous good

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : : Not controlled.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

56-81-5 Glycerine

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

56-81-5	Glycerine	90 - 100 %

Pennsylvania Right To Know

56-81-5	Glycerine	90 - 100 %

New Jersey Right To Know

56-81-5	Glycerine	90 - 100 %

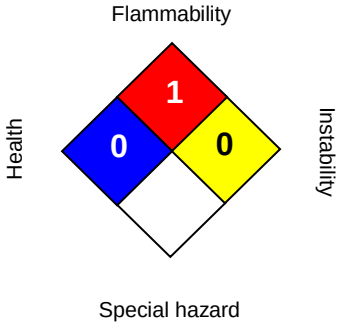
California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA	:	On TSCA Inventory
DSL	:	All components of this product are on the Canadian DSL
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory

SECTION16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 11/11/2023

Legacy SDS: : R0000211

Material number:
16153713, 16135220, 16134937, 16067314, 16130464, 16075237, 16056162, 16058190, 16058189, 674840, 643732, 641767, 641316, 603368, 550812, 107458, 76445, 71715, 73459, 88862, 57078, 56104, 55319, 54172, 86933, 86497, 86494, 101883, 56327, 54175, 20033, 53736, 52736

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenar-	OSHA	Occupational Safety & Health

	io Tool		Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		