# 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.<br>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.<br>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).<br>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.<br>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<br>Solvent: Alcohol<br><br>slightly soluble<br>Solvent: Acetone<br><br>insoluble<br>Solvent: Ether<br><br>insoluble<br>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<br>Strong acids<br>Nitric acid<br>chromium trioxide<br>potassium chlorate<br>potassium permanganate<br>Acetic anhydride<br>Chromium oxides<br>Alkali metals<br>metal hydrides<br>peroxides |
| Hazardous decomposition products | : | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).<br>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<br>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<br>Species: rat hepatocytes<br>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<br>Species: Rat, male and female<br>Application Route: Oral<br>Dose: 0, 2000 mg/kg bw<br>General Toxicity - Parent: NOAEL: 2,000 mg/kg body weight<br>General Toxicity F1: NOAEL: 2,000 mg/kg body weight<br>Fertility: NOAEL: 2,000 mg/kg body weight<br>Result: No reproductive effects. |
| Effects on foetal development | : | Species: Rat<br>Application Route: Oral<br>Dose: 0, 13.1, 60.8, 282, 1310 milligram per kilogram<br>Duration of Single Treatment: 10 d<br>General Toxicity Maternal: NOAEL: 1,310 mg/kg body weight<br>Teratogenicity: NOAEL: 1,310 mg/kg body weight<br>Developmental Toxicity: NOAEL: 1,310 mg/kg body weight<br>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.<br>For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922<br><br>Dispose of in accordance with all applicable local, state and federal regulations.<br>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 % |

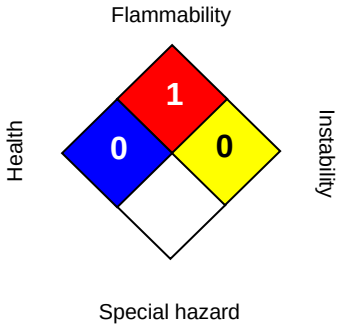
**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**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% | | |