

**MATERIAL SAFETY DATA SHEET****1. Identification of the substance/mixture and of the company****1.1 Product identifiers**

Product name	TECKNO GLYCERIN 995
Common name	Glycerin
CAS-No.	56-81-5

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

Relevant identified uses	Production of Emulsifier, emollient, plasticizer, humectant, sweetener, anti-freeze, in surface coatings and paints, cosmetics, drug excipient and food products. Intermediate for making glycerol derivatives etc.
Uses advised against	No data available

1.3 Details of the supplier of the safety data sheet

Company	Teck Guan (China) Ltd
Address	No. 1 Teck Guan Road, Rugao Port, Jiangsu, China
Postal Code	226532
Emergency telephone	+86-513-87589955
Website	www.teckguan.com/cn

2. Hazards identification**2.1 GHS classification**

Health hazards	Eye irritation (Category 2B), H320
Health hazards	Skin irritation (Category 3), H316

2.2 GHS Label elements, including precautionary statements

Pictogram	None
Signal word	Warning
Hazard statement(s)	H316 Causes mild skin irritation. H320 Causes mild eye irritation.
Precautionary statement(s)	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No data available

3. Composition/information on ingredients

Components	CAS No.	Percent
Glycerin	56-81-5	≥99.5%

4. First aid measures**4.1 Description of first aid measures**

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.



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In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media.

Use water spray, ethyl alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapor or mist.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

SDS: Glycerin EN

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Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8.Exposure controls/Personal protection

8.1 Control parameters

components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection	Safety glasses with side-shields conforming to EN166 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Body protection	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9.Physical and chemical properties

9.1Information on basic physical and chemical properties

Appearance	Clear liquid@ 72°F (22°C)
Color	Colorless and transparent
Odor	odorless
Odour Threshold	No data available
PH	5.5-8 (25°C 5Min H2O)
Melting point/freezing point	18°C (64.4°F)
Initial boiling point and boiling range	290°C (554°F) @ 760 mmHg (101.3kPa)



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Flash point	160°C(320 °F) - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	<1mm Hg@20°C
Vapor density	3.18-(空气=1.0)
Relative density	1.262@20°C/20°C
Water solubility	soluble@ 72 °F(22 °C)
Partition coefficient: n-octanol/water	Log Pow: 2.6
Auto-ignition temperature	>370°C(698 °F)@1013hPa(760 mmHg)
Decomposition temperature	No data available
Viscosity	1300mPa.s@ 68°F (20°C)

10.Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong bases,oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

11.Toxicological information

11.1Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - > 12,000 mg/kg (OECD Test Guideline 401) LC50 Inhalation: No data available LD50 Dermal - Rabbi ->10,000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation
Skin - Rabbit Result: Mild skin irritation - 24 h (OECD Test Guideline 404)
Serious eye damage/eye irritation
Eyes - Rabbit Result: Mild eye irritation - 24 h. (OECD Test Guideline 405)
Respiratory or skin sensitisation



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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. 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. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. as a carcinogen or potential carcinogen by OSHA.
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.

12. Ecological information

12.1 Toxicity

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available

12.2 Persistence and degradability

Biodegradability	No data available
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12.3 Bioaccumulative potential

Bioaccumulation	No data available
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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods



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Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging
Dispose of as unused product.

14. Transport information

Item	ADR	IMDG	IATA
UN number	-	-	-
Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Class	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Special precautions	No data available		

15. Regulatory information

Inventory status(1 "Yes" means that all ingredients of the product comply with the substance List regulations of the host country)

Country(s) or region	Inventory name	On inventory (yes/no) 1
Australia	Australian Inventory of Chemical Substances. (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine inventory of Chemicals and Chemical Substances (PICCS)	Yes
Switzerland	Switzerland FOPH	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other information

Disclaimer:

The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health. The information contained herein has been compiled from sources considered to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. We assume no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.