


<b>Certificate of Analysis</b>			
<b>Glycerine 99,5 % reiner Raps / pure rapeseed kosher / E422 GMP+ FSA</b>			
Revision / revision:		10	Seite / page:
gültig ab / valid from:		05.09.2022	1 of 1

<b>Batch Number:</b>  <b>Best Before Date</b>	4518301  September 2026
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Test Description	Specification	Result
Glycerine Assay (% m) E422 and EP/BP	99.5 – 101.0	100.0
Acrolein formation on heating (Id A) E422	Complies	Complies
Specific gravity (25/25 deg C) (Id B) E422	1.257 min	1.262
Refractive index at 20 deg C (Id C) E422 and EP/BP	1.471 – 1.475	1.474
Water, Karl Fischer (%) EP/BP	0.5 max	0.05
Sulphated Ash (%) E422 and EP/BP	0.01 max	Complies
Colour APHA	10 max	0
Butanetriols (%) E422	0.2 max	Complies
Acroleine, Glucose, Ammonium Compounds E422	Complies	Complies
3-MCPD (%) E422	Complies	Complies
Fatty Acids and Ester (as Butyric Acid) (%) E422	0.1 max	Complies
Chlorinated Compounds (mg/kg) E422	30 max	Complies
Arsenic (mg/kg) E422	3 max	Complies
Lead (mg/kg) E422	2 max	Complies
Mercury (mg/kg) E422	1 max	Complies
Cadmium (mg/kg) E422	1 max	Complies
Heavy Metals (mg/kg) E422 and EP/BP	5 max	Complies
Identification A, B, C and D EP/BP	Complies	Complies
Appearance of solution EP/BP	Complies	Complies
Acidity and Alkalinity (ml 0.1M NaOH) EP/BP	0.2 max	Complies
Aldehydes (mg/kg) EP/BP	1.0 max	Complies
Esters (ml 0.1M HCl) EP/BP	8.0 min	9.3
Impurity A and Related Substances EP/BP	Complies	Complies
Halogenated Compounds (mg/kg) EP/BP	35 max	Complies
Sugars EP/BP	Complies	Complies
Chlorides (mg/kg) EP/BP	10 Max	Complies

This document was issued electronically and is therefore valid without signature.



### **MIXED VEGETABLE-BASED GLYCERINE / GLYCEROL**

I can confirm the following applies for material supplied :

Animal Testing : Material has not been tested on animals since at least 2013.

BSE / TSE : Material is 100% vegetable-derived, therefore contains no BSE/TSE risk material

Food / Pharmaceutical Use : The material is suitable for use in food and is compliant with E422. Product is compliant with all current requirements of both BP and EP Standards.

GMO : Material is 100% derived from Vegetable Oil and is not from a Genetically-Modified source.

Irradiation : Material is not irradiated.

Halal Status : Material is 100% Vegetable-derived, contains no alcohol and does not come into contact with Pork / Meat products.

Heavy Metals : Material is within limits set in current Food and Pharmaceutical legislation

Kosher Status : Manufacturer and re-packing site (Kilo Ltd) are Kosher-certified

Latex : Material does not contain any Latex.

Melamine : From our knowledge of raw materials and process, this product is not at risk of contamination from Melamine.

Microbiological Contamination : Material is tested on a periodic basis and not considered a risk due to low water content.

Nano-materials : Material contains no Nanotechnology materials.

Nitrosamines : the manufacturing process does not include any Nitrogen compounds therefore, Nitrosamines are not expected to be present.

Natural Status : Glycerine is 100% Naturally-derived according to ISO 16128.

Pesticides : The material contains no pesticides.

Shelf-Life : Bulk Glycerine has a Best-Before date of 12 months from Date of Manufacture – when re-packed in BRC-compliant Clean Room conditions, into new sealed Food Grade IBC, Drum, Polydrums based on industry knowledge, it has a Best Before date of 2 Years from Date of Manufacture

Vegetable Glycerine is not listed on California Prop 65 List of prohibited substances.

Cont.



**Con. From Page 1**

Vegetable Glycerine is not certified as Organic.

Dioxins and PCB's, Pyrrolizidine Alkaloids are not expected to be found in Glycerine and, as a consequence are not routinely tested-for or included in the Monograph.

Vegetable Glycerine is suitable for both Vegetarian and Vegan diets.

5.2023



## Safety Data Sheet

**Product Name: Vegetable Glycerine**

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING**

#### **1.1. Product identifier**

REACH registered number(s):	Exempt From Reach According To Annex V
CAS number:	56-81-5
EINECS number:	200-289-5
Synonyms:	Glycerine Vegetable Derived
INCI name:	Glycerin

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

#### **1.3. Details of the supplier of the safety data sheet**

##### **Company:**

Madar Corporation Limited  
19 - 20 Sandleheath Industrial Estate  
Fordingbridge  
SP6 1PA

technical@madarcorporation.co.uk

##### **Emergency telephone number:**

+44 (0) 1425 655 555 (Mon-Fri 9am – 4pm)

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

Classification under CLP:	This product has no classification under CLP.
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#### **2.2. Label elements**

Label elements:	This product has no label elements.
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#### **2.3. Other hazards**

PBT:	This product is not identified as a PBT/vPvB substance.
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### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1. Substances**

Chemical identity:	Vegetable Glycerine
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CAS number: 56-81-5

EINECS number: 200-289-5

REACH registered number(s): Exempt From Reach According To Annex V

Contains: Glycerine

#### **SECTION 4: FIRST AID MEASURES**

##### **4.1 Description of first aid measures:**

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

##### **4.2 Most important symptoms and effects, both acute and delayed:**

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

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

Immediate / special treatment: Not applicable.

#### **SECTION 5: FIREFIGHTING MEASURES**

##### **5.1. Extinguishing media:**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

##### **5.2. Special hazards arising from the substances or mixture:**

Exposure hazards: In combustion emits toxic fumes.

##### **5.3. Advice for firefighters:**

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

##### **6.1. Personal precautions, protective equipment and emergency procedures:**

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: [technical@madarcorporation.co.uk](mailto:technical@madarcorporation.co.uk)

Personal precautions:

Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

## **6.2. Environmental precautions:**

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

## **6.3. Methods and material for containment and cleaning up:**

Clean-up procedures:

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## **6.4. Reference to other sections:**

Reference to other sections:

Refer to section 8 of SDS.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling:**

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions:

Store in a cool, well ventilated area. Keep container tightly closed.

### **7.3. Specific end use(s)**

Specific end use(s):

No data available.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters:**

Workplace exposure limits:

No data available.

#### **DNEL/PNEC Values**

DNEL / PNEC

No data available.

### **8.2. Exposure controls:**

Respiratory protection:

Respiratory protection not required.

Hand protection:

Protective gloves.

Eye protection:

Safety glasses. Ensure eye bath is to hand.

Skin protection:

Protective clothing.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties:**

State:	Liquid
Colour:	Colourless
Odour:	Characteristic odour
Solubility in water:	Miscible in all proportions
Viscosity:	Highly viscous
Boiling point/range°C:	290

### **9.2. Other information**

Other information:	No data available.
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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity:**

Reactivity:	Stable under recommended transport or storage conditions.
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### **10.2. Chemical stability:**

Chemical stability:	Stable under normal conditions. Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
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### **10.3. Possibility of hazardous reactions:**

Hazardous reactions:	Heat.
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### **10.4. Conditions to avoid:**

Conditions to avoid:

### **10.5. Incompatible materials:**

Materials to avoid:	Strong oxidising agents. Strong acids.	<b>10.6.</b>
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### **Hazardous decomposition products:**

Haz. decomp. products:	In combustion emits toxic fumes.
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## **SECTION 11: TOXOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Serious eye damage/irritation	-	No hazard: calculated
Respiratory/skin sensitisation	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated
Aspiration hazard	-	No hazard: calculated

### **Symptoms / routes of exposure**

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.



Ingestion:

There may be irritation of the throat.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity:**

Ecotoxicity values:

No data available.

### **12.2. Persistence and degradability**

Persistence and degradability:

Biodegradable.

### **12.3. Bio accumulative potential:**

Bioaccumulative potential:

No bioaccumulation potential.

### **12.4. Mobility in soil:**

Mobility:

Readily absorbed into soil.

### **12.5. Results of PBT and vPvB assessment:**

PBT identification:

This product is not identified as a PBT/vPvB substance.

### **12.6 Other adverse effects:**

Other adverse effects: Negligible ecotoxicity.

## **SECTION 13: DISPOSAL**

## **CONSIDERATIONS**

### **13.1 Waste treatment methods:**

Disposal operations:

Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging:

Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## **SECTION 14: TRANSPORT INFORMATION**

Transport class:

This product does not require a classification for transport.

## **SECTION 15: REGULATORY INFORMATION**

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

Specific regulations:

Listed on the following chemical inventories: AICS Australia; DSL/NDSL Canada; EINECS/ELINCS/NLP Europe; ENCS Japan; IECSC China; KECI/ecl Korea; IECSC China; NZIoC New Zealand; PICCS Philippines; TSCA USA

## 15.2. Chemical Safety Assessment

Chemical safety assessment:

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## SECTION 16: OTHER INFORMATION

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Date: 01/04/2022

Issue No: 2

*The document above has to be considered as technical information, it is presented in good faith, but no warranty is given. The above information does not release the customer from making their own controls and checks upon receipt of the product. In view of the great variety of possible applications, no assurance is given of the suitability of the product for any particular purpose. Furthermore, since Madar Corporation Limited as a material supplier is unable to exercise any control over the use of the products, including designing, testing, specifying a compound or product incorporating any of the products, it is the sole responsibility of the buyer who shall assume any consequences thereof, whether direct or indirect, and whatsoever its nature, and the seller makes no warranties in respect thereof.*

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## Product Specification



### Product Name: Vegetable Derived Glycerine 99.5%

BP/EP/E422/Kosher/Non-GMO

<u>Property</u>	<u>Range</u>	<u>Method</u>
Glycerine assay	99.5 – 101.0 % (m)	E422 and BP/EP
Acrolein formation on heating (Id A)	Complies	E422
Specific gravity (25/25 deg C) (Id B)	1.257 min	E422
Refractive index @ 20 °C (Id C)	1.471 – 1.474	E422 and BP/EP
Water	0.5 % max	BP/EP
Sulphated ash	0.01 % max	E422 and BP/EP
Colour	10 max	APHA
Butanetriols	0.2 % max	E422
Acrolein, glucose, and ammonium cmpds	Complies	E422
3-MCPD	Complies	E422
Fatty acids and esters (as butyric acid)	0.1%	E422
Chlorinated compounds	30 ppm max	E422
Arsenic	3 mg/kg max	E422
Lead	2 mg/kg max	E422
Mercury	1 mg/kg max	E422
Cadmium	1 mg/kg max	E422
Heavy metals ppm	5 mg/kg max	E422 and BP/EP
Identifications A, B, C and D	Complies	BP/EP
Appearance of solution	Complies	BP/EP
Acidity and alkalinity (0.1M NaOH)	0.2 ml max	BP/EP
Aldehydes	10 ppm max	BP/EP
Esters (0.1MHCl)	8.0 ml min	BP/EP
Impurity A and related substances	Complies	BP/EP
Halogenated compounds	35 ppm max	BP/EP
Sugars	Complies	BP/EP
Chlorides	10 ppm max	BP/EP

#### Nutritional Data (Typical)

Energy,	kcal / 100g	400
Energy,	kJ /100g	1700
Carbohydrates	%	100
Protein	%	0
Fat	%	0

Free from BSE/TSE risk material.

Not irradiated.

Complies with BP/EP. Food approved E422 according to EC directives 2008/84/EC.

**Shelf life unopened** 24 months from date of manufacture, stored under recommended conditions in suitable sealed containers.

**Storage conditions** Store at ambient temperature away from heat sources and direct sunlight.

Manufactured without the use of solvents therefore free from residual solvents

<b>Origin</b>	European Union
<b>GMO</b>	This product is free from genetically modified organisms
<b>INCI name</b>	Glycerin (100%)



#### Allergens

The product is free from the following allergens:

- Cereals containing gluten (including wheat rye barley oats, spelt, camut or their hybridised strains) and products thereof
- Nuts i.e. almond (*Amygdalus communis* L.) hazelnut (*Corylus Avellana*) walnut (*Juglans regia*) cashew (*Anacardium Occidentale*) pecan (*Carya Illinioesis*) brazil (*Bertholletia excelsa*), pistachio (*Pistacia Vera*), macadamia, queensland (*macadamiaterrnifolia*) and products thereof
- Crustaceans and products thereof
- Eggs and products thereof
- Fish and products thereof
- Peanuts and products thereof
- Soya beans and products thereof
- Milk and products thereof (including lactose)
- Celery and products thereof
- Mustard and products thereof
- Sesame seeds and products thereof
- Sulphur dioxide of concentrations mg per kg or 10mg per litre expressed as SO<sub>2</sub>
- Molluscs and products thereof
- Lupins and products thereof

**Issue No:2 Date:01.04.2022**

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