

Safety data sheet
 according to EC-Regulations 1907/2006 (REACH), 1272/2008 (CLP)
 & 2020/878

Printing date 03.02.2022

Version number 2.1 (replaces version 2.0)

Revision: 03.02.2022

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

· **1.1 Product identifier**

· **Product Name:** AG097304

· **Product Code:**

Developmental code: LPGW01

JTI code: JT40112754

· **GPS No.** Not applicable.

· **UFI:** Not applicable.

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

Concentrate used in the formulation of flavourings for tobacco products.

· **Uses advised against** Anything other than the above.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

FUJI FLAVOR CO, LTD

3-5-8 Midorigaoka Hamura

Tokyo 205-8503 Japan

Tel: +81 42 554 1244

Fax: +81 42 579 2101

· **Only Representative**

JT International Germany GmbH

A member of the JTI Group of Companies

Diedenhofenerstrasse 20-30

54294 Trier

Germany

Tel: 0049 (0)651 686 1164

E-Mail (competent person): reach.communication@jti.com

· **Further information obtainable from:** Manufacturer / Supplier

· **1.4 Emergency telephone number:**

Emergency phone no. +81 42 554 1244

Japan, JST (+9 GMT)

Language spoken: Japanese

· **European National Helpdesk** Guidance is available at: <https://echa.europa.eu/support/helpdesks>

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard-determining components of labelling (contains):** Not applicable.

· **Hazard statements** Void

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|---|---|---------|
| CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23-xxxx | Propane-1,2-diol substance with a Community workplace exposure limit | 50-<60% |
| CAS: 56-81-5 EINECS: 200-289-5 | Glycerol substance with a Community workplace exposure limit | 25-<50% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

· **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** Concentrate used in the formulation of flavourings for tobacco products

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 57-55-6 Propane-1,2-diol

| | |
|---------------------|---|
| WEL (Great Britain) | Long-term value: 474* 10**, 150* |
| | *total vapour and particulates **particulates |

CAS: 56-81-5 Glycerol

| | |
|---------------------|--|
| AGW (Germany) | Long-term value: 200 E mg/m ³ |
| | 2 (I);DFG, Y |
| WEL (Great Britain) | Long-term value: 10 mg/m ³ |

· **DNELs**

CAS: 57-55-6 Propane-1,2-diol

| | | |
|------------|--|-----------------------|
| Inhalative | DNEL Worker - Long Term - Systemic effects | 168 mg/m ³ |
| | DNEL Worker - Acute - Local effects | 10 mg/m ³ |

· **PNECs**

CAS: 57-55-6 Propane-1,2-diol

| | |
|-----------------------------------|--------------|
| PNEC Aqua (Intermittent release) | 183 mg/l |
| PNEC Aqua (marine water) | 26 mg/l |
| PNEC Aqua (freshwater) | 260 mg/l |
| PNEC Aqua (freshwater sediment) | 527 mg/kg dw |
| PNEC Soil | 50 mg/kg dw |
| PNEC STP (Sewage Treatment Plant) | 20,000 mg/l |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:**



Not necessary if room is well-ventilated.

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· Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection

Tightly sealed goggles

Use eye protection according to EN 166, designed to protect against liquid splashes.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information**

| | |
|---|--|
| · Physical state | Fluid |
| · Colour: | Colourless |
| · Odour: | Odourless |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Not determined. |
| · Boiling point or initial boiling point and boiling range | Not determined. |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | not applicable (>93 °C; ASTM D 6450) |
| · Auto-ignition temperature: | Not determined. |
| · Decomposition temperature: | Not determined. |
| · pH | 5.6 (JIS Z 8802) |
| · pH (10% Aqua): | Not determined. |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic (20°C): | 125.3 mPa.s (JIS Z 8803) |
| · Dynamic (40°C): | Not determined. |
| · Solubility | |
| · water: | >1000 g/l (UN GHS rev.6 Annex4 Table A4.3.9.1) |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure: | Not determined. |
| · Density and/or relative density | |
| · Density (20°C): | 1.121 kg/l (JIS K 2249-1) |

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| | |
|--|--|
| · Density (40°C): | Not determined. |
| · Relative density | 1.123 |
| · Vapour density | Not determined. |
| · 9.2 Other information | |
| · Appearance | |
| · Form: | Liquid |
| · Relative self-ignition temperature | Not determined. |
| · Explosive properties: | Not determined. Components of the mixture do not contain any chemical groups indicating explosive properties. |
| · Change in condition | Not determined. |
| · Softening point/range | Not determined. |
| · Oxidising properties | Not determined. Components of the mixture do not contain any chemical groups indicating oxidising properties. |
| · Evaporation rate | Not determined. |
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

CAS: 57-55-6 Propane-1,2-diol

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 22,000 mg/kg (rat) |
| Dermal | LD50 | 20,800 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >44.9 mg/l (rat) |

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability**

| | | |
|---------|------------------|---|
| 57-55-6 | Propane-1,2-diol | Readily biodegradable. OECD 301 (28 Days) |
| 56-81-5 | Glycerol | Readily biodegradable. |

- **12.3 Bioaccumulative potential**

| | | |
|---------|------------------|--|
| 57-55-6 | Propane-1,2-diol | The substance has low potential for bioaccumulation. |
|---------|------------------|--|

- **12.4 Mobility in soil**

The product is predicted to have high mobility in soil.
 Solubility (Water) >1000 g/l

| | | |
|---------|------------------|---------------------------------------|
| 57-55-6 | Propane-1,2-diol | Existing substances. OECD SIDS, 2001. |
|---------|------------------|---------------------------------------|

- **Surface tension:** 41.29 mN/m
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**

57-55-6 Propane-1,2-diol: Not a PBT according to REACH Annex XIII.
 56-81-5 Glycerol: Not a PBT according to REACH Annex XIII.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN number or ID number · ADR, IMDG, IATA | not regulated |
| · 14.2 UN proper shipping name · ADR, IMDG, IATA | not regulated |
| · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | not regulated |
| · 14.4 Packing group · ADR, IMDG, IATA | not regulated |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | not regulated |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

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- **National regulations:**
- **Waterhazard class:** Germany: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** Propane-1,2-diol: A REACH chemical safety assessment has been carried out.

SECTION 16: Other information

- **Training hints**

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

- **Date of previous version:** 26.11.2021
- **Version number of previous version:** 2.0

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- **Sources**

EU Classification: This Safety Data Sheet was prepared in accordance with EC-Regulation 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878.

- **Disclaimer**

The information contained in this document is believed to be accurate as of the date issued, and is given in good faith to provide advice about the safe handling of the product specified herein. It is the responsibility of the Users to determine whether the product is suitable for their own particular purpose, and to determine the best precautions for the safe handling and use of this product necessary for the User's unique application.

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- **Annex to the extended Safety Data Sheet (eSDS)**

Propane 1,2-diol: Not applicable. Not hazardous. Exposure Scenarios are not applicable.

- *** Data compared to the previous version altered.**