SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 11 Apr 2022
Print date: 19 May 2023
Version: 1.2

PRESERVATIVE - DS 1388 ECO

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

1.1. Product identifier

Product name/designation:

PRESERVATIVE - DS 1388 ECO

Other means of identification:

Liquid mixture of sodium 4-oxovalerate, sodium anisate, glycerol, water

UFI: 1MMJ-QTX2-XE28-UJ1J

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

Use of the substance/mixture:

Raw Material for personal care products

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Aroma Trading Ltd
Unit 3 Quatro Park, Tanners Drive, Milton Keynes MK14 5FJ
ENGLAND
Telephone: +44 1908334100

E-mail (competent person): sales@aromatrading.com

1.4. Emergency telephone number

Address NHS Direct
+44 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	Calculation method.
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:

GHS05
Corrosion

GHS07
Exclamation mark

Signal word: Danger

Hazard statements for health hazards	
H302	Harmful if swallowed.
H318	Causes serious eye damage.

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Supplemental hazard information: none

Precautionary statements Prevention	
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....

Precautionary statements Response	
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/.../ if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.

2.3. Other hazards
No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous ingredients / Hazardous impurities / Stabilizers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 56-81-5 EC No.: 200-289-5	**glycerol** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	> 60 – < 100 weight-%
CAS No.: 19856-23-6 EC No.: 243-378-4 REACH No.: 01-2120764150-64	**sodium 4-oxovalerate** Acute Tox. 4 (H302), Eye Dam. 1 (H318)  Danger	> 10 – < 20 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave the affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:
Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunk in little sips (dilution effect).

Self-protection of the first aider:
Use personal protection equipment. No direct artificial respiration to be given by a first aider.

4.2. Most important symptoms and effects, both acute and delayed
Serious eye damage/eye irritation

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:
Strong water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6:

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Remove persons to safety.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:
Water (with cleaning agent)

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Wear personal protection equipment (refer to section 8).

Fire prevent measures:
No special measures are necessary.

Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	**glycerol** CAS No.: 56-81-5 EC No.: 200-289-5	① 10 mg/m³

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	PNEC Value	① PNEC type
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	0.1 mg/kg	① PNEC aquatic, freshwater
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	0.1 mg/kg	① PNEC aquatic, marine water
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	10 mg/L	① PNEC sewage treatment plant
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	0.42 mg/kg	① PNEC sediment, freshwater
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	0.042 mg/kg	① PNEC sediment, marine water
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	5.687 mg/kg	① PNEC soil
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	1 mL/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection EN 166

Skin protection:
Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid **Colour:** yellow

Odour: sweetish

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7 – 8	20 °C	
Melting point	*not determined*		
Freezing point	*not determined*		
Initial boiling point and boiling range	*not determined*		
Decomposition temperature	*not determined*		
Flash point	*not determined*		
Evaporation rate	*not determined*		
Auto-ignition temperature	*not determined*		
Upper/lower flammability or explosive limits	*not determined*		
Vapour pressure	*not determined*		
Vapour density	*not determined*		
Density	1.11 – 1.14	20 °C	
Relative density	*not determined*		
Bulk density	*not determined*		
Water solubility	very soluble		
Partition coefficient: n-octanol/water	*not determined*		
Dynamic viscosity	*not determined*		
Kinematic viscosity	*not determined*		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heat, UV-radiation/sunlight,

10.5. Incompatible materials

Oxidising substances; Strong acid;strong base

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire: Gases/ vapours, toxic

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

glycerol	CAS No.: 56-81-5 EC No.: 200-289-5
LD_{50} oral: >20 – <39,800 mg/kg (rat)	
LD_{50} dermal: 56,750 mg/kg (guinea pigs)	
sodium 4-oxovalerate	CAS No.: 19856-23-6 EC No.: 243-378-4
LD_{50} oral: >300 – <2,000 mg/kg (Ratte)	
LD_{50} dermal: >2,000 mg/kg (Ratte)	
sodium anisate	CAS No.: 536-45-8 EC No.: 208-634-1
LD_{50} oral: >5,000 mg/kg (Rat) OECD 401 Read-across from p-anisic acid (CAS 100-09-4)	

Acute oral toxicity:
Harmful if swallowed.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Causes serious eye damage.

Respiratory or skin sensitization:
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.

Additional information:
No data available

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

12.1. Toxicity

glycerol	CAS No.: 56-81-5 EC No.: 200-289-5
LC_{50}: 54,000 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))	
sodium 4-oxovalerate	CAS No.: 19856-23-6 EC No.: 243-378-4
LC_{50}: >100 mg/L (fish)	
EC_{50}: 6,234 mg/L (crustaceans, Daphnia)	
EC_{50}: 1,098 mg/L (Algae/water plant)	
LC_{50}: >100 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio))	

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sodium anisate CAS No.: 536-45-8 EC No.: 208-634-1
LC_{50}: >100 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC_{50}: 943 mg/L 2 d (crustaceans, Daphnia magna) OECD 202, Daphnia magna, read-across from p-anisic-acid CAS No. 100-09-4)
ErC_{50}: >320 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
LC_{50}: >100 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
EC_{50}: >320 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
EC_{50}: 943 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 32 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
LOEC: 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

12.2. Persistence and degradability

sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4
Biodegradation: Yes, rapidly
Remark: OECD 301F (read across)
sodium anisate CAS No.: 536-45-8 EC No.: 208-634-1
Biodegradation: Yes, rapidly
Remark: OECD 301F

12.3. Bio accumulative potential

glycerol CAS No.: 56-81-5 EC No.: 200-289-5
Log K_{OW}: 1.75
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4
Log K_{OW}: 0.616
sodium anisate CAS No.: 536-45-8 EC No.: 208-634-1
Log K_{OW}: 0.53

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

glycerol CAS No.: 56-81-5 EC No.: 200-289-5
Results of PBT and vPvB assessment: —
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
sodium anisate CAS No.: 536-45-8 EC No.: 208-634-1
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2. Chemical Safety assessment
No data available

SECTION 16: Other information

16.1. Indication of changes
No data available

16.2. Abbreviations and acronyms
No data available

16.3. Key literature references and sources for data

Substance name	Type	source of supply
sodium 4-oxovalerate CAS No.: 19856-23-6 EC No.: 243-378-4	Classification of the substance or mixture; LC_{50}	Source: European Chemicals Agency, http://echa.europa.eu/
glycerol CAS No.: 56-81-5 EC No.: 200-289-5	LD_{50} oral; LC_{50}	Source: European Chemicals Agency, http://echa.europa.eu/
sodium anisate CAS No.: 536-45-8 EC No.: 208-634-1	LC_{50}; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) *(Acute Tox. 4)*	H302: Harmful if swallowed.	Calculation method.
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	Calculation method.

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16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H318	Causes serious eye damage.

16.6. Training advice

No data available

16.7. Additional information

No data available

The information given on this material health and safety sheet is not a warranty as to the performance or suitability of the product. The information must be regarded only as a description of the health, safety and environmental requirements for that product. The information contained herein is true and accurate to the best of our knowledge and belief but does not claim to be all inclusive.
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