

SAFETY DATA SHEET – DINAMO GROUP SRLS

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

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

1.1. Product identifier

Trade name: AROMA V1 (EtOH) 003814/F(Contains:Methylcyclopentenolone)

Other identifier: LR003814F

Unique Formula Identifier (UFI): R999-1D1T-7Y21-XNA9

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

Product uses: Flavourings

Uses not recommended: Fragrances

1.3. Details of the supplier of the safety data sheet Company

name DINAMO GROUP SRLS

Company address:
VIA ALDO MORO, 153
21028 TRAVEDONA MONATE (VA)
ITALIA

Contact: Office

E-mail address: dinamogroupsrls@gmail.com



1.4. Emergency telephone number

Emergency telephone:

Osp. Pediatrico Bambino Gesù Roma, Piazza Sant'Onofrio, 4 00165 tel. 06 68593726
- Az. Osp. Univ. Foggia V.le Luigi Pinto, 1 71122 tel. 0881 732326
- Az. Osp. A. Cardarelli Napoli, Via A.Cardarelli,9 80131 tel. 081 7472870
- Policlinico Umberto I Roma, V.le del Policlinico, 155 161 tel. 06 49978000
- Policlinico A.Gemelli Roma, Largo Agostino Gemelli, 8 168 tel. 06 3054343
- Osp. Careggi U.O. Toss. Medica Firenze Largo Brambilla, 3 50134 tel. 055 7947819
- Centro Nazionale di Informazione Tossicologica Pavia Via Salvatore Maugeri, 10 27100 tel. 0382 24444
- Osp. Niguarda Ca' Granda Milano Piazza Ospedale Maggiore, 3 20162 tel. 02 66101029
- Az. Osp. Papa Giovanni XXII Bergamo Piazza OMS, 1 24127 tel. 800883300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard class and category:

Flammable Liquids, Hazard Category 3
Serious eye damage/eye irritation, hazard category 1 Skin sensitisation, hazard category 1
H226, Flammable liquid and vapour.
H317, May cause allergic skin reaction. H318, Causes

s
e
r
i
o
u
s
e
y
e
d
a
m
a
g
e
.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

2.2. Label Elements

Classification according to Regulation (EC) No 1272/2008

Warning Danger

Hazard statement H226, Flammable liquid and vapour.

H317, May cause allergic skin reaction. H318, Causes serious eye damage.

Additional information: None

Precautionary Statement: P210, Keep away from sources of heat/sparks/open flames/heated surfaces. -Do not smoke.
P233, Keep container tightly closed.
P240, Ground/ground the container and the receiving device.
P241, Use electrical/ventilation/lighting/explosion-proof equipment. P242, Use only non-sparking tools.
P243, Take precautions against electrostatic discharge.
P261, Avoid breathing dust/fume/gas/mist/vapours/spray.
P272, Contaminated work clothes should not be worn outside the workplace. P280, Wear protective gloves/protective clothing/eye protection/face protection.
P303/361/353, IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin/shower.
P305/351/338, IF IN EYE CONTACT: rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P310, Immediately call a POISON CENTER or doctor/physician. P333/313, If skin irritation or rash occurs: Get medical advice. P363, Wash contaminated clothing before reuse.
P370/378, In case of fire: extinguish with: Foam,Chemical powder,Carbon dioxide. P403/235, Store in a cool, well-ventilated place.
P501, Dispose of product/container at: approved site.

Pictograms



2.3. Other dangers

2.3. Other hazards None

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F**Version:** 2

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Contains:

Name	CAS	CE	REACH	%	Classification according to the Regulation (EC) No 1272/2008	Specific Conc. Limits, M-factors and ATEs
Ethyl maltol	4940-11-8	225-582-5	01-2120758795-36-XXXX	5-<10%	Acute Tox. 4;H302,-	dermal: ATE = 5000.01 mg/kg bw-oral: ATE = 1220 mg/kg bw
Ethyl alcohol (E 1510)	64-17-5	200-578-6	01-2119457610-43-XXXX	5-<10%	Flam. Liq. 2-Eye Irrit. 2; H225-H319,-	oral: ATE = 15010 mg/kg bw
Methylcyclopentenolone	765-70-8	212-154-8		1-<5%	Acute Tox. 4-Eye Dam. 1-Skin Sens. 1;H302- H317-H318,-	oral: ATE = 1067.4 mg/kg bw
Ethyl lactate	97-64-3	202-598-0		0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Dam. 1-STOT SE 3;H226-H315- H318-H335,-	oral: ATE = 2000.01 mg/kg bw

Substances with a Community workplace exposure limit

Name	CAS	CE	REACH	%	Classification according to Regulation (EC) No 1272/2008	Specific Conc. Limits, M-factors and ATEs
Ethyl alcohol (E 1510)	64-17-5	200-578-6	01-2119457610-43-XXXX	5-<10%	Flam. Liq. 2-Eye Irrit. 2; H225-H319,-	oral: ATE = 15010 mg/kg bw
Propane-1,2-diol (E 1520)	57-55-6	200-338-0	01-2119456809-23-XXXX	50-100%	-;-,-	dermal: ATE = 2000.01 mg/kg bw-oral: ATE = 22000 mg/kg bw

Substances that are endocrine disruptors according to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, greater than 0.1%:

Not applicable

Persistent, bioaccumulative and toxic or very persistent and very bioaccumulative substances above 0.1 %:

Not applicable

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Inhalation: Move the casualty to fresh air, keep him at rest and consult a doctor.

Exposure of the eyes: IF IN EYES: Rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.

Skin exposure: IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin/shower.

Ingestion: Rinse mouth with water and seek medical advice.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

4.2. Main symptoms and effects, both acute and delayed

May cause allergic skin reaction. Causes serious eye damage.

4.3. Indication of any need for immediate medical attention and special treatment

None expected; see section 4.1 for further information.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable media: Carbon dioxide, dry chemical, foam.

5.2. Special hazards arising from the substance or mixture

In the event of a fire, possible release of: Carbon monoxide, unidentified organic compounds.

5.3. Recommendations for firefighters

In case of insufficient ventilation, use suitable respiratory equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhaling the product. Avoid contact with eyes and skin. See protective measures in sections 7 and 8.

6.2. Environmental precautions

Keep away from drains, surface and ground water and soil.

6.3. Methods and materials for containment and remediation

Eliminate ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spills immediately using sand or inert powder. Dispose of according to local regulations in force.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Keep away from heat sources/sparks/open flames/heated surfaces. -Do not smoke.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

7.2. Conditions for safe storage, including any incompatibilities

Ground/ground the container and the receiving device. Use only non-sparking tools.

Take precautions against electrostatic discharge.

7.3. Specific end uses

Flavourings: Use in accordance with good manufacturing and industrial hygiene practices.

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

Occupational exposure limits:

Name	CAS	CE	Description	Value
Ethyl alcohol (E 1510)	64-17-5	200-578-6	Long-term exposure limit (8 hours TWA) (ppm)	1000
			Long-term exposure limit (8 hours TWA) (mg/m3)	1920
Propane-1,2-diol (E 1520)	57-55-6	200-338-0	Long-term exposure limit (8 hours TWA) (ppm)	150
			Long-term exposure limit (8 hours TWA) (mg/m3)	474

8.2. Exposure controls Skin/eye protection

Wear protective gloves/eye protection/face protection

Respiratory apparatus

Ensure adequate continuous ventilation to prevent excessive vapour accumulation and ensure compliance with occupational exposure limits. If appropriate and depending on one's own methods and extent of use, the following technical control measures may be required as additional protective measures (a) isolation of mixing bays and other areas where material is used or handled freely; maintaining these areas at a lower air pressure than the rest of the plant; (b) use of personal protective equipment, such as a suitably equipped and approved respirator with organic vapour cartridge or filter cartridges and dust filters; (c) use of a local exhaust ventilation system around open tanks and other open sources of potential exposure, to prevent excessive inhalation of the product, including places where material is freely weighed or measured; use of a dilution ventilation system of the work area, to eliminate or reduce possible exposure of personnel; (d) use of closed systems for material transfer and processing.

See also sections 2 and 7.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State/Colour:	brown liquid // brown liquid
Odour:	characteristic // characteristic
Odour threshold:	Not determined
Melting point/freezing point	Not determined
Boiling point or initial boiling point and boiling range:	> 150,0 °C
Flammability:	Not determined
Lower and upper explosion limit:	Not determined
Flash point	> 30 °C
Auto-ignition temperature	Not determined
Decomposition temperature:	Not relevant
pH:	Not determined
Kinematic viscosity:	Not determined
Solubility:	Solubility in organic solvents Soluble in ethanol. Insoluble in water.
Partition coefficient: n-octanol/water (log value):	Not determined
Vapour density:	Not determined
Density and/or relative density:	> 0,8000
Relative vapour density:	Not determined
Particle characteristics:	Not determined

9.2. Other information: None available

SECTION 10: Stability and reactivity

10.1. Reactivity

It presents no significant reactivity hazard, either alone or in contact with water.

10.2. Chemical stability

Good stability under normal storage conditions.

10.3. Possibility of dangerous reactions

Not expected under normal conditions of use.

10.4. Conditions to avoid

Avoid extreme heat.

10.5. Incompatible materials

Avoid contact with strong acids, alkalis or oxidising agents.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F**Version:** 2**10.6. Hazardous decomposition products**

Not foreseen.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

This mixture has not been fully tested for health effects. These were calculated using the methods described in Regulation (EC) No 1272/2008 (CLP).

Acute toxicity:	Based on available data, the classification criteria are not met.
acute oral	toxicity>5000
acute dermal toxicity	2591
acute inhalation toxicity	Not available.
skin corrosion/irritation: severe eye damage/serious eye irritation:	Based on available data, the classification criteria are not met. Serious eye damage/eye irritation, hazard category 1
respiratory sensitisation or skin:	Skin sensitisation, hazard category 1
germ cell mutagenicity:	
	Based on the available data, the classification criteria are not met.
carcinogenicity:	Based on the available data, the classification criteria are not met.
reproductive toxicity:	Based on the available data, the classification criteria are not met.
specific target organ toxicity (STOT) - single exposure: specific target organ toxicity (STOT) - repeated exposure	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

hazard if aspirated: Based on available data, the classification criteria are not met.

Information on hazardous ingredients in the mixture

Name	CAS	CE	Oral LD50/ATE	LD50/ATE cutaneous	LC50/ATE inhalation	LC50, route of
Ethyl maltol	4940-11-8	225-582-5	1220	5000,01	Not available.	Not available.
Methylcyclopentenolone	765-70-8	212-154-8	1067,4	Not available.	Not available.	Not available.

Please refer to sections 2 and 3 for further information.

11.2 Information on other hazards

Not applicable

SECTION 12: Ecological Information

12.1. Toxicity	Not available.
12.2. Persistence and degradability	Not available.
12.3. Bioaccumulative potential	Not available.
12.4. Mobility in soil	Not available.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

12.5. Results of PBT and vPvB assessment

Substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Endocrine disrupting properties: Not applicable

12.7 Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of according to local regulations in force. Avoid disposal into drains and the environment. Empty containers must be handed over to an authorised waste management centre for recycling or disposal.

SECTION 14: Transport Information

	14.1. UN Number	14.2. UN proper shipping name	14.3 Transport Hazard Classes	Secondary risk:	14.4. Packaging Group
UN Model Regulations	UN1197	EXTRACTS, LIQUID	3	-	III
IMDG	UN1197	EXTRACTS, LIQUID	3	-	III
ADR,RID,ADN	UN1197	EXTRACTS, LIQUID	3	-	III
ICAO TI	UN1197	EXTRACTS, LIQUID	3	-	III

14.5. Environmental Hazards Not classified as environmentally hazardous transport.

14.6. Special precautions for users None more

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations and legislation specific to the substance or mixture

Level of potential contamination water (WGK): 1

15.2. Chemical safety assessment

A chemical safety assessment was not carried out for this product.

SECTION 16: Other information

Concentration limits %: EDI 1=75.00% EDI 2=19.23% SS

1=25.00% **Total fractional values:** EDI 1=1.33 EDI 2=5.20 SS 1=4.00

Revision legend:

14.1. UN Number

14.2. UN proper shipping name

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F

Version: 2

14.3. Transport hazard classes

14.3. Transport hazard classes

14.4. Packaging group

Classification according to Regulation (EC) No 1272/2008

SECTION 3: Composition/information on ingredients

Legend of abbreviations:

Abbreviation	Meaning
Acute Tox. 4	Acute toxicity (oral), hazard category 4
Eye Dam. 1	Serious eye injury/eye irritation, hazard category 1
Eye Irrit. 2	Serious eye injury/eye irritation, hazard category 2
Flam. Liq. 2	Flammable Liquids, Hazard Category 2
Flam. Liq. 3	Flammable Liquids, Hazard Category 3
H225	Highly flammable liquids and vapours.
H226	Flammable liquids and vapours.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	It may cause an allergic skin reaction.
H318	Causes serious eye injuries.
H319	Causes severe eye irritation.
H335	May irritate the respiratory tract.
P210	Keep away from heat sources/sparks/open flames/heated surfaces. -Do not smoke.
P233	Keep the container tightly closed.
P240	Ground/ground the container and the receiving device.
P241	Use electrical/ventilation/lighting/explosion-proof systems.
P242	Use only non-sparking tools.
P243	Take precautions against electrostatic discharge.
P261	Avoid breathing dust/fumes/gas/mist/vapours/aerosols.
P264	Wash thoroughly after use.
P270	Do not eat, drink or smoke during use.
P271	Use only outdoors or in a well-ventilated place.
P272	Contaminated work clothes must not be taken out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301/312	IF INGESTION accompanied by discomfort: contact a POISON CENTRE or doctor.
P302/352	IF ON SKIN: Wash thoroughly with soap and water.
P303/361/353	IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin/shower.
P304/340	IN CASE OF INHALATION: Remove the casualty to fresh air and keep him or her at rest in a position conducive to breathing.
P305/351/338	IF IN EYES: Rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P310	Contact a POISON CENTRE or doctor immediately.
P330	Rinse the mouth.

P332/313

In case of skin irritation: consult a doctor.

SAFETY DATA SHEET

Complies with EC Regulation No. 878/2020

Product AROMA V1 (EtOH) 003814/F**Version:** 2

P333/313	In case of skin irritation or rash: consult a doctor.
P337/313	If eye irritation persists, consult a doctor.
P362	Remove contaminated clothing and wash it before wearing it again.
P363	Wash contaminated clothing before wearing it again.
P370/378	In case of fire: extinguish with: Foam,Chemical powder,Carbon dioxide.
P403/233/235	Keep the container tightly closed and in a well-ventilated place. Store in a cool place.
P403/235	Store in a cool, well-ventilated place.
P405	Store under lock and key.
P501	Dispose of product/container at: approved site.
STOT SE 3	Specific Target Organ Toxicity (single exposure), hazard category 3 - Respiratory Irritation
Skin Irrit. 2	Skin corrosion/irritation, hazard category 2
Skin Sens. 1	Skin sensitisation, hazard category 1

Restriction of use recommended by the manufacturer:

FOR INDUSTRIAL USE ONLY - NOT A PRODUCT FOR THE PUBLIC.

The given data are based on our current knowledge and experience and describe the product in terms of safety; they do not represent any guarantee of the product characteristics and do not substantiate any legal-contractual relationship. Therefore, the manufacturer assumes no liability whatsoever arising from irresponsible, improper or illegal use, direct or indirect, claims for damages of any kind whatsoever, of the product presented or sold.

THIS FORM CANCELS AND REPLACES ALL PREVIOUS EDITIONS. UNSIGNED

DOCUMENT AS IT WAS DRAWN UP ELECTRONICALLY.