

MATERIAL SAFETY DATA SHEET

Complies with Reg. (EU) 2020/878

Revision n. 02
Date of issue 12/10/2022
(Replaces revision n. 01
date of issue 28/02/2020)

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

1.1 Product identifier

Trade name: RIBES NIGR. BUDS-DERIVED (G.M.), ORGANIC

Trade code: 014433

UFI code: X4Y8-01XY-Y00R-X4G3

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

Raw material with food and cosmetic application

Do not use for purposes other than those listed

1.3 Details of the supplier of the safety data sheet

Sergio Fontana s.r.l.

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1.4 Emergency telephone number

Pavia – CAV IRCCS Fondazione Maugeri – tel. 038224444

Milano – CAV Ospedale Niguarda Ca' Granda – tel. 0266101029

Bergamo – CAV Azienda Ospedaliera Papa Giovanni XXII – tel. 800883300

Roma – CAV Policlinico Gemelli – tel. 063054343

Roma – CAV Policlinico Umberto I – tel. 0649978000

Napoli – CAV Ospedale Cardarelli – tel. 0817472870

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Reg. (EC) 1272/2008 (CLP):



GHS 02 – Flam. Liq. 3 – H226.Flammable liquid and vapour
GHS 07 – Eye Irrit. 2 – H319.Causes serious eye irritation

2.2 Label elements

Labelling according to Reg. (EC) 1272/2008 (CLP):

Pictogram – Signal Word Code(s):

GHS02, GHS07– Warning



Hazard statement Code(s):
H226.Flammable liquid and vapour
H319.Causes serious eye irritation

Supplemental Hazard statement Code(s):
None

Precautionary statements:

P210.Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233.Keep container tightly closed
P240.Ground/bond container and receiving equipment
P241.Use explosion-proof electrical/ventilating/lighting/equipment
P242.Use only non-sparking tools
P243.Take precautionary measures against static discharge
P264.Wash hands thoroughly after handling
P270.Do not eat, drink or smoke when using this product
P280.Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353.IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338.IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313.If eye irritation persists: get medical advice/attention
P370+P378.In case of fire: use CO₂, powder extinguisher or nebulized water to extinguish
P403+P235.Store in a well-ventilated place. Keep cool
P501.Dispose of contents/container in accordance with local/regional/international regulations

Contains ETHANOL

2.3 Other hazards

Based on the information available, the product does not contain PBT or vPvB substances in percentage greater than 0,1%

SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous components according to Reg. (EC) 1272/2008 (CLP) and related classification:

Components	%	CAS	EINECS/ELINCS	Classification
Ethanol; ethyl alcohol	23,0 – 32,0	64-17-5	200-578-6	Flam. Liq. 2 – H225, Eye Irrit. 2 – H319

The full text of the hazard statements (H) is given in section 16 of the sheet

SECTION 4. First aid measures

4.1 Description of first aid measures

General indications: the symptoms of poisoning can appear after many hours, for this reason it is necessary to monitor a doctor in the 48 hours following the accident

In case of skin contact: immediately take off contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. In case of persistent skin irritation consult a doctor

In case of contact with eyes: rinse with water for an appropriate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist. Protect the uninjured eye. Remove any contact lenses

In case of ingestion: call a doctor immediately. Do not give anything to an unconscious person

In case of inhalation: move away from the product and go to a ventilated area. Call the doctor immediately and show him the packaging or label. If the person has fainted, keep him in a stable position on his side during transport

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

If symptoms, apparently due to inhalation, contact with eyes, skin or ingestion of the product, arise and persist, consult a doctor. Show this safety data sheet to the doctor

SECTION 5. Firefighting measures

5.1 Extinguishing media

Advised extinguishing agents: water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire

Extinguishing means to avoid: water jets. Use water jets only to cool the surfaces of the containers exposed to fire

5.2 Special hazards arising from the substance or mixture

In case of fire, carbon monoxide (CO) and carbon dioxide (CO₂) may be liberated; exposure to combustion or decomposition products can result in serious damage to health

5.3 Advice for firefighters

If necessary, wear respiratory protective equipment with independent air supply in case of fire. Collect the contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety point of view, move undamaged containers from the area of immediate danger

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Do not take any action involving any personal risk or without proper training. Evacuate the surrounding areas. Do not touch or walk on the spilled material

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of this Safety Data Sheet) to prevent contamination of skin, eyes and personal clothing. Wear appropriate respirator when ventilation is inadequate

Do not inhale vapours. Avoid the dispersion of the product into the environment. Follow the appropriate internal procedures provided for personnel not authorized to intervene directly in the event of accidental release

6.1.2 For emergency responders

Stop the leak if there is no danger

Evacuate unauthorized personnel. Wear suitable protective equipment (see section 8 of this Safety Data Sheet). Follow the appropriate internal procedures for authorized personnel. Isolate the danger area and deny entry.

Ventilate enclosed spaces before entering. Check the fumes/vapours

Keep unequipped people away. Eliminate any source of ignition (cigarettes, flames, sparks, etc.) or heat from the area where the leak occurred

6.2 Environmental precautions

Prevent the entering of product in sewers, surface water, ground water and neighboring areas

If the product has drained into a river, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities

Dispose of waste in compliance with current regulations

6.3 Methods and material for containment and cleaning up

Contain leaks with inert absorbent material (sand, vermiculite, diatomaceous earth)

Collect the majority of the remaining material and deposit it in containers for disposal

After collection, wash with water (if there are no contraindications) the area and materials involved

Ensure adequate ventilation of the place affected by the loss

The disposal of contaminated material must be made in accordance with the provisions of section 13

6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1 Precautions for safe handling

During handling and use, avoid contact and inhalation of vapors, prevent contact of the powder with ignition sources such as open flames, sparks, etc.

At work do not eat or drink

7.2 Conditions for safe storage, including any incompatibilities

Keep in original and tightly closed containers. Do not store in open or unlabeled containers

Keep containers upright and safe by avoiding the possibility of falls or collisions

Store in a cool place, away from sources of heat and direct exposure of sunlight

7.3 Specific end use(s)

No data available

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Related to contained substances:

ETHANOL, ETHYL ALCOOL – CAS: 64-17-5

DNEL

inhalation, workers: 380 mg/m³ long term, systemic effects
 inhalation, workers: 1900 mg/m³ short term, local effects
 inhalation, general population: 114 mg/m³ long term, systemic effects
 inhalation, general population: 950 mg/m³ short term, local effects
 cutaneous, worker: 343 mg/kg bw/day long term, systemic effects
 cutaneous, general population: 206 mg/kg bw/day long term, systemic effects
 oral, general population: 87 mg/kg bw/day long term, systemic effects

PNEC

freshwater: 0,96 mg/l (assessment factor: 10)
 sea water: 0,79 mg/l (assessment factor: 100)
 microorganisms in wastewater treatment: 580 mg/l (assessment factor: 10)
 freshwater sediment: 3,6 mg/kg (partition coefficient)
 sea water sediment: 2,9 mg/kg (partition coefficient)
 soil: 0,63 mg/kg (assessment factor: 1000)
 oral, secondary poisoning: 0,38 g/kg (assessment factor: 90)

8.2 Exposure controls

Eye and face protection: not needed for normal use. If it is necessary to protect the eyes and face, use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU) and NIOSH (USA)

Hand protection: handle with gloves. Gloves must be inspected before being used to verify their integrity. Dispose contaminated gloves after use in accordance with applicable governmental regulations. Wash and dry your hands. The selected protective gloves have to satisfy the requirements in Directive 88/686/EEC and the standard EN 374 derived from it

Respiratory protection: not needed for normal use. If it is necessary to protect against dust, use a dust mask with filter type P2. Use respirators and components tested and approved by the relevant bodies, such as CEN (EU) and NIOSH (USA)

Body protection: wear normal work clothing

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical and chemical properties	Value
Physical state	Liquid
Colour	From light yellow to dark yellow
Odour	Intense, aromatic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Flammable

Lower and upper explosion limit	No data available
Flash point	≥ 23 and ≤ 60 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Density and/or relative density	$\geq 1,000$ g/ml
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2 Other information

No data available

SECTION 10. Stability and reactivity

10.1 Reactivity

Avoid reactions with strong oxidizing substances; alkali metals in contact with ethanol develop hydrogen; sodium hypochlorite added to ethanol may result in explosions. The addition of ethanol to concentrated hydrogen peroxide leads to the formation of an explosive compound to impact

10.2 Chemical stability

No hazardous reactions if used and stored according to provisions

10.3 Possibility of hazardous reactions

In contact with ignition sources possibility of fire/explosion

10.4 Conditions to avoid

Heat, flames, sparks. Avoid storage in poorly ventilated places. Do not store the substance under direct sunlight. Avoid extreme humidity conditions. Avoid the accumulation of electrostatic charges

10.5 Incompatible materials

Strong inorganic acids, strong oxidizing substances, sodium hypochlorite, hydrogen peroxide. The reactions with strong oxidizing substances can have explosive course. Alkali metals in contact with ethanol develop hydrogen (flammable gas). Hypochlorite added to ethanol may result in explosion. The addition of ethanol in concentrated hydrogen peroxide leads to the formation of an explosive mixture

10.6 Hazardous decomposition products

In case of combustion, carbon oxides

SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product, the possible health hazards are evaluated based on the properties of the contained substances, according to the criteria laid down by the relevant regulations for the classification. Therefore, consider the concentration of the individual hazardous substances possibly mentioned in section 3, to evaluate the toxicological effects resulting from exposure to the product

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

Acute toxicity

LD50 (Oral) of the mixture: not classified (no relevant component)
LC50 (Inhalation) of the mixture: not classified (no relevant component)
LD50 (Dermal) of the mixture: not classified (no relevant component)

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5
LD50 (oral, rat): 10470 mg/kg bw (OECD Guideline 401 method)
LC50 (inhalation, rat): 117-125 mg/l/4 h (OECD Guideline 403 method)
LD50 (dermal, rabbit): 17100 mg/kg bw (literature)

Based on the information available, the substance does not meet the classification criteria for this hazard class

Corrosion/irritation of skin

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5
Method: OECD Guideline 404 in GLP, in vivo
Reliability (Klimisch score): 1 (reliable without restriction)
Species: rabbit
Route of exposure: dermal
Results: non-irritating to the skin

Based on the information available, the substance does not meet the classification criteria for this hazard class

Serious eye damage/irritation

Based on the information available, the mixture meets the classification criteria for this hazard class: mixture irritating to eyes

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5
Method: OECD Guideline 405, in vivo
Reliability (Klimisch score): 2 (reliable without restriction)
Species: rabbit
Route of exposure: eyes
Results: irritating to eyes

Sensitization of respiratory tract or skin

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

No data available

Germ cell mutagenicity

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

No data available

Carcinogenicity

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

Method: carcinogenicity studies

Reliability (Klimisch score): not applicable

Species: rat, mouse

Route of exposure: oral

Results:

- rat: no effect level > 3000 mg/kg
- mouse (B6C3F1): female: NOAEL > 44000 mg/kg (cancer), male: NOAEL > 4250 mg/kg (based on historical control data), male: BMDL10 1400 mg/kg (based on concurrent control data)

Based on the information available, the substance does not meet the classification criteria for this hazard class

Reproductive toxicity

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Reliability (Klimisch score): 1 (reliable without restriction)

Species: mouse

Route of exposure: oral

Results:

- effect on fertility (oral) NOAEL 13800 mg/kg bw/day
- effect on fertility (inhalation) NOAEC 30400 mg/m³

Based on the information available, the substance does not meet the classification criteria for this hazard class

Specific target organ toxicity (STOT) — single exposure

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

No data available

Specific target organ toxicity (STOT) — repeated exposure

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

Method: repeated dose toxicity studies

Reliability (Klimisch score): not applicable

Species: rat

Route of exposure: oral

Results: NOAEL 1730 mg/kg bw/day

Based on the information available, the substance does not meet the classification criteria for this hazard class

Aspiration hazard

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

No data available

11.2 Information on other hazards

The product does not contain substances with properties of interference with the endocrine system in accordance with the criteria established in Reg. (EU) 2017/2100 or in Reg. (EU) 2018/605 in a percentage equal to or greater than 0,1% by weight

SECTION 12. Ecological information

12.1 Toxicity

Based on the information available, the mixture does not meet the classification criteria for this hazard class

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

LC50 – Fish: 11200 mg/l/96h

LC50 – Crustaceans: 5012 mg/l/48h

EC50 – Algae: 275 mg/l/72h

12.2 Persistence and degradability

Based on the information available, the mixture is readily biodegradable

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

Solubility in water: 789 g/l

Readily biodegradable

12.3 Bioaccumulative potential

Based on the information available, the mixture has a low potential for bioaccumulation

Related to contained substances:

ETHANOL; ETHYL ALCOHOL – CAS: 64-17-5

Partition coefficient n-octanol/water: - 0,35

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6 Endocrine disrupting properties

Based on the information available, the product does not contain substances having properties of interference with the endocrine system in a percentage equal to or greater than 0,1% by weight

12.7 Other adverse effects

No data available

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partially contains this product must be evaluated according to the laws in force

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations

The transport of waste may be subject to ADR

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations

SECTION 14. Transport information

14.1 UN number or ID number

ADR/RID/IMDG/IATA-ICAO: 1170



14.2 UN proper shipping name

ADR/RID/IMDG/IATA-ICAO: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

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14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA-ICAO – Class: 3

ADR/RID/IMDG/IATA-ICAO – Label: 3

14.4 Packing group

ADR/RID/IMDG/IATA-ICAO: III

14.5 Environmental hazards

ADR/RID – Environmental pollutant: Not

IMDG – Marine pollutant: Not

IATA-ICAO – Environmental pollutant: Not

14.6 Special precautions for user

ADR/RID

Tunnel restriction code:	D/E
Limited quantities:	5 l
HIN (hazard identification numbers) – Kemler:	30

IMDG

EmS codes:	F-E, S-D
Limited quantities:	5 l

IATA-ICAO

Cargo – Maximum net quantity: 220 l Packing Instruction: 366

Pass – Maximum net quantity: 60 l Packing Instruction: 355

Special Provision: – A3 A58 A180

14.7 Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

SECTION 15. Regulatory information

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

This data sheet complies with the requirements of Reg. (EC) 2006/1907, Reg. (EC) 2008/1272, Reg. (EU) 2010/453. The user has to check and verify the compliance with certain European, national, regional and local measures concerning hazardous activities and environmental protection

Seveso Category - Directive 2012/18/EC: P5a – P5b – P5c (related to ethanol)

Substances in Candidate List (Art. 59 REACH): none

Substances subject to authorization (Annex XIV REACH): none

Where applicable, refer to the following regulations:

Ministerial Circulars 46 and 61 (Aromatic amines)

Restrictions relating to the product or contained substances according to Annex XVII Regulation (EC) 1907/2006

Regulation 648/2004/EC (Detergents)

D.Lgs. 152/2006 Environmental regulations

Dir. 2004/42/EC (VOC Directive)

15.2 Chemical safety assessment

Chemical safety assessment was not carried out on this product

SECTION 16. Other information

The data are reported on the basis of our current knowledge; however, they do not represent any guarantee of the product characteristics and do not justify any legal contractual relationship

Text of the sentences used in paragraph 3:

H225.Highly flammable liquid and vapour

H319.Causes serious eye irritation

Paragraphs modified with respect to the previous revision: 1 / 3 / 9 / 11 / 12

Abbreviations and acronyms:

- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- Acute Tox. 4: Acute Toxicity – Category 4
- PBTs: Persistent Bioaccumulative Toxic substances
- vPvB: very Persistent, very Bioaccumulative
- CAS: Chemical Abstracts Service
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- DNEL: Derived No-Effect Level
- PNEC: Predicted No Effect Concentration
- LC50: Lethal Concentration 50
- LD50: Lethal Dose 50
- NOAEL: No Observed Adverse Effect Level
- EC50: Half maximal effective concentration
- ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transport Association

Classification and procedure used to derive it according to Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification according to (CE) 1272/2008 (CLP)	Classification procedure
Flam. Liq. 3 H226	Based on experimental data
Eye Irrit. 2 H319	Calculation method

References:

- Regulation (EC) 1907/2006 of the European Parliament (REACH)
- Regulation (EC) 1272/2008 of the European Parliament (CLP)
- Regulation (EU) 2015/830 of the European Parliament
- Regulation (EU) 2020/878 of the European Parliament
- The Merck Index - 10th Edition



- IFA GESTIS website
- ECHA Agency website
- Banca dati di modelli di SDS di sostanze chimiche - Ministero della Salute e Istituto Superiore di Sanità (Database of chemical Safety Data Sheets templates - Ministry of Health and National Institute of Health)

The above information refers to the current state of our knowledge. However, users must ensure the suitability and completeness of such information in relation to the specific use they intend to do