

SPECTRUM

LIQUID CONCENTRATE

SAFETY DATA SHEET

In accordance with Regulation (CE)N° 2020/878

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY

Name	SPECTRUM LIQUID CONCENTRATE
Nature / USE	Seasoning and flavouring premixture of organoleptic feed additives for feed use only.
N° CAS / CE / Reach	Not applicable, it is a mixture.
UFI code	W8H2-YH7U-P00M-ORQ4
Details of the supplier of the data sheet	NATURAL INGREDIENTS_18, Rue Léon Deverteuil_ZI de Beaulieu 85640 MOUCHAMPS_FRANCE
Telephone number	+33 (0)2 41 64 13 87 // + 33 (0)6 61 74 17 17
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Urgency telephone	<ul style="list-style-type: none"> - NATURAL INGREDIENTS : +33 (0)2 41 64 13 87 // +33 (0)6 61 74 17 17 - Health emergency telephone number of the National Poison Center France : +33 (0)3 83 85 21 92 // +33 (0)1 45 42 59 59 Netherlands. National Poisons Information Center / University Medical Center Utrecht. +31 88 75 585 61

2. HAZARDS IDENTIFICATION

2.1 - Classification of the substance or mixture

Classification according to the Regulation (CE) 1272/2008

- Skin irritation, 2
- Eyes irritation, 2
- Skin sensitizer, 1A

2.2 - Label elements

Pictogram



Word of warning

WARNING

Hazard statements

- H315 – Causes skin irritation.
- H317 – May cause an allergic skin reaction.
- H319 – Causes serious eye irritation.

Cautionary statements

- P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
- P302+P352 - IF ON SKIN: Wash with plenty of water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTRE or doctor.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Supplementary Hazard statement

None



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2.3 - Other hazards

Persistence, bioaccumulation and toxicity classification.

See section 12.5 for PBT and vPvB assessment.

Endocrine disrupting properties.

See section 12.6 for more information on endocrine disrupting properties.

Formation of air pollutants during hardening or processing.

No data available.

Dust generation

Not applicable, the product is liquid

Explosive properties

No data available.

Dust explosion hazards

Not applicable, the product is liquid

Cross-sensitisation

No data available

Asphyxiation hazard

No data available

Freezing hazard

No data available

High odour or taste generation capacity

No particular mention

Environmental effects

No data available

Hazards to soil organisms

No data available

Photochemical ozone creation potential

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 - Substances

Not applicable, this product is a mixture.

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3.2 – Mixtures

Dangerous components	N° Reg REACH	N° CAS	N° CE	Conc.	Classification
Onion oil	Exempt	8002-72-0	616-802-4	3-10%	Flam liq 3, H226 Acute tox (oral) 4, H302 Skin irrit 2, H315 Eyes irrit 2, H319 STOT SE 3, H335
Garlic oil	Exempt	8000-78-0	232-371-1	<2%	Flam liq 3, H226 Acute tox (oral) 4, H302 Skin irrit 2, H315 Eyes irrit 2, H319 Skin sense 1A, H317
benzaldehyde	01- 2119455540 - 44-xxxx	100-52-7	202-860-4	0,1- 0,2%	Acute tox (oral) 4, H302 Eyes irrit 2, H319 Acute tox (inh) 4, H332 STOT SE 3, H335
Isopentyl acetate	01- 211954808- 32-xxxx	123-92-2	204-662-3	0,1 – 0,2%	Flam liq 3, H226 EUH066
Ethyl butirate	01- 2120118576 - 54-xxxx	105-54-4	203-306-4	0,1 – 0,2%	Flam liq 3, H226 Eyes irrit 2, H319
Cinnamaldehyde	01- 2119935242 - 45-xxxx	104-55-2	203-213-9	0,1 – 0,2%	Acute tox 4 (skin), H312 Skin irrit 2, H315 Skin sense 1A, H317A Eyes irrit 2, H319 Aquatic chronic 3, H412

For the full text of the H-Statements referred to in this section, see section 16.

4. FIRST AID

4.1 - Description of first aid

General recommendations

Consult a doctor by showing the safety data sheet and/or label.

If inhaled

Move person to fresh air. If breathing has stopped, give artificial respiration and consult a doctor.

In case of skin contact

Wash off with soap and water. Consult a doctor.

In case of contact with eyes

Wash thoroughly with plenty of water for at least 15 minutes and seek medical advice.



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If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

4.2 - Most important symptoms and effects, acute and delayed

The most important known symptoms and effects are described on the label (see section 2.2.) and/or in section 11.

4.3 - Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 - Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

5.2 - Specific hazards arising from the substance or mixture

Oxides of carbon.

5.3 - Recommendations for fire-fighters

If necessary, wear self-contained breathing apparatus for fire-fighting.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 - Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Personal protective equipment, see section 8.

6.2 - Environmental precautions: Do not allow product to enter sewage system.

6.3 - Methods and material for containment and cleaning-up

Soak up with inert absorbent material and dispose of as special waste. Store in suitable closed containers for disposal.

6.4 - Reference to other sections: For waste disposal see section 13

7. HANDLING AND STORAGE

7.1 - Precautions for safe handling

Avoid contact with eyes and skin. Avoid inhalation of vapour or mist. See precautions in section 2.2.



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7.2 - Conditions for safe storage, including any incompatibilities

Store in a cool place: We recommend a storage temperature below 35°C (to maintain the product's organoleptic characteristics, not because of safety and/or stability issues). Keep container tightly closed in a dry, well-ventilated place. Once opened, containers should be stored in an upright position to avoid leakage and properly closed.

7.3 - Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 - Control parameters

This product does not contain substances with occupational exposure limits.

8.2 - Exposure controls

Appropriate engineering controls

Handle with appropriate industrial hygiene precautions, and observe safe handling practices.

Wash hands before breaks and after completion of work.

Personal protection

Eye/face protection

Safety goggles that fit the contours of the face. Protective visor (minimum 20 cm). Wear eye protection equipment tested and approved according to relevant governmental standards such as NIOSH (USA) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves should be inspected before use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good laboratory practice. Wash and dry hands.

The selected protective gloves must comply with the specifications of Regulation (EU) 2016/425 and the derived EN 374 standard.

Immersion

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Penetration time: 480 min

Splashing

Material: Nitrile rubber

minimum layer thickness: 0,11 mm

Penetration time: 480 min

If used in solution, or mixed with other substances, and under conditions other than EN 374, contact the supplier of the CE approved gloves. This recommendation is advice and should be evaluated by an industrial hygiene and safety officer familiar with our customers' specific intended use situation. It should not be interpreted as a standard for any specific usage scenario.



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Body Protection

Full protective suit against chemicals, The type of protective equipment should be chosen according to the concentration and the of protective equipment must be chosen according to the concentration and quantity of the hazardous substance and the specific working conditions.

Respiratory protection

Use respiratory protection according to the hazards associated with the mixture. If so, use full face mask or ABEK type filters according to EN 14387. Use respirators and/or components tested and approved under appropriate standards such as NIOSH (US) or CEN (EU).

Environmental exposure control

Do not allow product to enter sewage system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 - Information on basic physical and chemical properties

- (a) Physical state: Liquid
- (b) Colour: Amber
- (c) Odour: characteristic of garlic and onion
- (d) Melting point / freezing point: Information not available
- (e) Boiling point or initial boiling point and boiling range: Information not available
- (f) Flammability: Information not available
- (g) Upper and lower explosive limit: Information not available
- (h) Flash point: Information not available
- (i) Auto-ignition temperature: Information not available
- (j) Decomposition temperature: Information not available
- (k) pH: 3,5 – 6,5 (Sol. 10%)
- (l) Kinematic viscosity: Information not available
- (m) Solubility: solubility in water, solubility in other solvents
- (n) n-octanol/water partition coefficient: Not applicable to mixtures.
- (o) Vapour pressure: Information not available.
- (p) Density and/or relative density: Information not available.
- (q) Relative vapour density: Information not available.
- (r) Particulate characteristics: Information not available.

9.2 - Other information

9.2.1 - Information concerning physical hazard classes

- (a) Explosives: Not applicable. The product is not classified as explosive.
- (b) Flammable gases: Not applicable, the product is not classified as flammable gas.
- (c) Aerosols: Not applicable, the product is not an aerosol.
- (d) Oxidising gases: Not applicable, the product is not an oxidising gas.
- (e) Pressurised gas: Not applicable, the product is not a pressurised gas.
- (f) Flammable liquid: Not applicable, the product is not a flammable liquid.
- (g) Flammable solid: Not applicable, the product is not a flammable solid.
- (h) Spontaneously reacting substances and mixtures: Not applicable, this mixture does not react spontaneously.
- (i) Pyrophoric liquids: Not applicable, this product is not a pyrophoric liquid.
- (j) Pyrophoric solids: Not applicable, this product is not a pyrophoric solid.



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- (k) Substances and mixtures undergoing spontaneous heating: Not applicable, this mixture does not undergo spontaneous heating.
- (l) Substances and mixtures which emit flammable gases in contact with water: Not applicable, this mixture does not emit flammable gases in contact with water.
- (m) Oxidising liquids: Not applicable, this mixture is not an oxidising liquid.
- (n) Oxidising solids: Not applicable, this mixture is not an oxidising solid.
- (o) Organic peroxides: Not applicable, this mixture is not an organic peroxide.
- (p) Corrosive to metals: Not applicable, this mixture is not corrosive to metals.
- (q) Desensitised explosives: Not applicable, this product is not a desensitised explosive.

Other safety characteristics

- (a) Mechanical sensitivity: No information available.
- (b) Self-accelerating polymerisation temperature: Information not available.
- (c) Formation of explosive dust/air mixtures: Not applicable. The product is a liquid.
- (d) Acid/alkaline reserve: Information not available.
- (e) Evaporation rate: Information not available.
- (f) Miscibility: Information not available.
- (g) Conductivity: Information not available.
- (h) Corrosivity: the product is not expected to be corrosive, as it does not contain substances classified as such.
- (i) Gas group Information: not available.
- (j) Redox potential: Information not available.
- (k) Radical formation potential: Information not available
- (l) Photocatalytic properties: Information not available.

10. STABILITY AND REACTIVITY

10.1 - Reactivity

No data available

10.2 - Chemical stability

Stable under recommended storage conditions

10.3 - Possibility of hazardous reactions

No data available

10.4 - Conditions to avoid

Avoid humidity and extreme temperatures and weather conditions.

10.5 - Incompatible materials

Bases, oxidizing agents, reducing agents, strong oxidizing agents.

10.6 - Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - carbon oxides

Other hazardous decomposition products - no data available

In case of fire, see section 5

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

No components classified as acutely toxic are identified in this mixture and it is therefore not considered as such.



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Skin corrosion or irritation

the product is classified as a skin irritant hazard due to the presence of several substances classified as skin irritants at the concentrations listed in section 3.2.

Serious eye damage or irritation

the product is classified as hazardous for causing serious eye damage due to the presence of several substances classified as skin irritants and/or corrosives, at the concentrations given in section 3.2.

Respiratory or skin sensitisation

the product is classified as hazardous for causing skin sensitisation due to the presence of several substances classified as such, at the concentrations indicated in section 3.2.

Germ cell mutagenicity

No components of this product are identified as mutagenic, therefore the mixture is not considered as mutagenic either.

Carcinogenicity

No component of this product is identified at levels greater than or equal to 0.1% as a probable, possible or confirmed International Agency for Research on Carcinogens (IARC) human carcinogen.

Reproductive toxicity

No component of this product is identified as toxic for reproduction, therefore the mixture is not classified as such either.

Specific target organ toxicity - single exposure

No component of this product is identified as being classified as specific target organ toxicant by single exposure, therefore the mixture is not classified as such either.

Specific target organ toxicity - repeated exposure.

No component of this product is identified as being classified as specific target organ toxicant by repeated exposure, therefore the mixture is also not classified as specific target organ toxicant by repeated exposure.

Aspiration hazard

No component of this product is identified as classified as aspiration hazard, therefore the mixture is not considered as such either.

11.2 - Information concerning other hazards

Endocrine disrupting properties. See section 12.6

Other information No particular mention.

12. ECOLOGICAL INFORMATION

12.1 - Toxicity No data available

12.2 - Persistence and degradability No data available

12.3 - Bioaccumulative potential No data available

12.4 - Mobility in soil No data available

12.5 - Results of PBT and vPvB assessment

This product does not contain components considered to be persistent bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative and very persistent (vPvB) at levels of 0.1% or higher.

12.6 - Endocrine disrupting properties

No substances with endocrine disrupting properties have been identified.

12.7 - Other adverse effects No data available



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13. DISPOSAL CONSIDERATIONS

13.1 - Waste treatment methods

Product

Offer product and unusable solutions to an accredited waste company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 - UN number or ID number

ADR/RID:- IMDG:- IATA:- IATA:-

14.2 - United Nations Proper Shipping Name

ADR/RID: Non-dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 - Transport hazard class(es):

ADR/RID:- IMDG: - IATA:-

14.4 - Packing group(s):

ADR/RID:- IMDG: - IATA:-

14.5 - Environmental hazards

This mixture does not present an environmental hazard according to the criteria of the UN Model Regulations as laid down in ADR, RID and ADN), and is not a marine pollutant according to the IMDG code.

14.6 - Special precautions for users

Before relevant transport, read the safety data sheet carefully to understand the hazards of the product and the recommended means of avoiding hazards to human health and the environment.

14.7 - Transport by sea in bulk according to IMO Instruments:

Not applicable

15. REGULATORY INFORMATION

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

The safety data sheet complies with the requirements of Regulation 1907/2006 and its subsequent amendments.

15.2 - Chemical Safety Assessment

A chemical safety assessment has not been carried out for this product



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16. OTHER INFORMATION

Full text of the H-declarations referred to in section 3

H226 - Flammable liquids and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects..

EUH066. Repeated exposure may cause skin dryness or cracking

Other information

The above information is believed to be correct but does not purport to be exhaustive and should be used for guidance only. The information contained in this document is based on our knowledge and is applicable safety precautions appropriate to the product.

It does not represent any guarantee of the properties of the product. NATURAL INGREDIENTS shall not be liable for any damage resulting from handling or contact with the above product.

For further information, please contact NATURAL INGREDIENTS : qualite@naturalingredients.fr.

This version substitutes all previous versions.