

**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : ORION NG  
UFI : SAUC-5NP5-560U-GHA8

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

Recommended use(s): Insecticide - biocidal use  
Use(s) advised against: Do not use for purposes other than those stated in "Recommended use(s)"

**Use descriptor system (REACH) :**

Not available.

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

Registered company name : LODI S.A.S.  
Address : PA des Quatre Routes.35390.Grand-Fougeray.FRANCE.  
Telephone : 02.99.08.48.59. Fax : 02 99 08 38 68.  
fds@lodi.fr  
<https://www.lodi-group.fr/>

**1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

Association/Organisation : Centres antipoison : <http://www.centres-antipoison.net..>

**Other emergency numbers**

European poison Control Center: 112

**SECTION 2 : HAZARDS IDENTIFICATION**

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

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).  
Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**2.2. Label elements**

Biocidal mixture (see section 15).

**> In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07

GHS09

Signal Word :

WARNING

Product identifiers :

EC 289-699-3

CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF  
TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CO2

EC 202-859-9

ALCOOL BENZYLIQUE

613-326-00-9

2-METHYLISOTHIAZOL-3(2H)-ONE

Additional labeling :

Hazard statements :

H317

May cause an allergic skin reaction.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P391

Collect spillage.

Precautionary statements - Disposal :

P501

Dispose of contents/container according to the regulation.

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq$  0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

#### > Composition :

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 89997637_CO2 CAS: 89997-63-7 EC: 289-699-3  CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CO2	GHS07, GHS09 Wng Acute Tox. 4, H302 Skin Sens. 1B, H317 Acute Tox. 4, H332 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 100		0 $\leq$ x % < 2.5
INDEX: 649-422-00-2 CAS: 64742-47-8 EC: 265-149-8  DISTILLATES (PETROLEUM), HYDRO- TREATED LIGHT	GHS08 Dgr Asp. Tox. 1, H304		0 $\leq$ x % < 2.5
INDEX: 101_51_6A CAS: 100-51-6 EC: 202-859-9  ALCOOL BENZYLIQUE	GHS07 Wng Acute Tox. 4, H302 Skin Sens. 1B, H317 Eye Irrit. 2, H319		0 $\leq$ x % < 2.5
INDEX: 128370 CAS: 128-37-0 EC: 204-881-4  BUTYLATED HYDROXYTOLUENE	GHS07, GHS09 Wng Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[i]	0 $\leq$ x % < 2.5
INDEX: 613-326-00-9 CAS: 2682-20-4 EC: 220-239-6  2-METHYLISOTHIAZOL-3(2H)-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1 EUH071		0 $\leq$ x % < 2.5

#### > Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: 89997637_CO2 CAS: 89997-63-7 EC: 289-699-3  CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CO2		inhalation: ATE = 2.3 mg/l 4h (dust/mist) oral: ATE = 1030 mg/kg BW
INDEX: 101_51_6A CAS: 100-51-6 EC: 202-859-9  ALCOOL BENZYLIQUE		dermal: ATE = 2500 mg/kg BW oral: ATE = 1200 mg/kg BW

ORION NG

INDEX: 613-326-00-9 CAS: 2682-20-4 EC: 220-239-6 2-METHYLISOTHIAZOL-3(2H)-ONE	Skin Sens. 1A: H317 C>= 0.0015%	
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**Nanoform**

Not available.

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of exposure by inhalation :**

Remove casualty to fresh air and keep warm and at rest. Seek medical attention if difficulties appear and persist.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In case of skin exposure, clean skin with water then with soap. Seek medical attention if irritation or discomfort develops

**> In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

**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**

**Specific and immediate treatment :**

Treat symptomatically.

**Information for the doctor :**

Treat symptomatically.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist

- carbon dioxide (CO2)

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO2)

**5.3. Advice for firefighters**

No data available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Avoid any contact with the skin and eyes.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

### 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

#### Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

#### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

### 7.2. Conditions for safe storage, including any incompatibilities

No data available.

#### Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

#### Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging :

Original packaging.

Suitable packaging materials :

Original packaging.

Unsuitable packaging materials :

Different than the original packaging.

### 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits :

- France :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
128-37-0 BUTYLATED HYDROXYTOLUENE		10				

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- Belgium :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
128-37-0 BUTYLATED HYDROXYTOLUENE	2 mg/m3				

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
128-37-0 BUTYLATED HYDROXYTOLUENE	10 mg/m3				

> **Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

ALCOOL BENZYLIQUE (CAS: 100-51-6)

>	<b>Final use:</b>	<b>Workers.</b>
	Exposure method:	Dermal contact.
	Potential health effects:	Short term systemic effects.
	DNEL :	40 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	8 mg/kg body weight/day
	Exposure method:	Inhalation.
	Potential health effects:	Short term systemic effects.
	DNEL :	110 mg of substance/m3
	Exposure method:	Inhalation.
	Potential health effects:	Long term systemic effects.
	DNEL :	22 mg of substance/m3

>	<b>Final use:</b>	<b>Consumers.</b>
	Exposure method:	Ingestion.
	Potential health effects:	Long term systemic effects.
	DNEL :	4 mg/kg body weight/day
	Exposure method:	Ingestion.
	Potential health effects:	Short term systemic effects.
	DNEL :	20 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	4 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Short term systemic effects.
	DNEL :	20 mg/kg body weight/day
	Exposure method:	Inhalation.
	Potential health effects:	Long term systemic effects.
	DNEL :	5.4 mg of substance/m3
	Exposure method:	Inhalation.
	Potential health effects:	Short term systemic effects.
	DNEL :	27 mg of substance/m3

> **Predicted no effect concentration (PNEC):**

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Environmental compartment:	Soil.
PNEC :	0.456 mg/kg
Environmental compartment:	Fresh water.
PNEC :	1 mg/l
Environmental compartment:	Sea water.
PNEC :	0.1 mg/l
Environmental compartment:	Intermittent waste water.

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PNEC :	2.3 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 5.27 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.527 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 39 mg/l

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard ISO 16321.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Suitable type of protective boots :

In the event of minor spatter, wear protective boots or half-boots against chemical risks in accordance with standard EN13832-2.

In the event of prolonged contact, wear boots or half-boots with liquid-chemical-resistant and waterproof soles and uppers in accordance with standard EN13832-3.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Physical state

Physical state : Fluid liquid.

#### Colour

Colour: Yellow.

#### Odour

Odour threshold : Not stated.

#### Melting point

Melting point/melting range : Not relevant.

#### Freezing point

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

> **Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash Point Interval : FP > 100°C.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

> **Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

> **pH**

pH (aqueous solution) : Not stated.

pH : 4.06 0.5.  
Slightly acidic.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Dilutable.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : 1.0136

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

None.

**10.5. Incompatible materials**

None.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

## SECTION 11 : TOXICOLOGICAL INFORMATION

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

#### 11.1.1. Substances

##### > a) Acute toxicity :

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Oral route : LD50 = 1200 mg/kg body weight  
Species : Rat

Dermal route : LD50 = 2500 mg/kg body weight

Inhalation route (Vapours) : LC50 > 5.4 mg/l  
Species : Rat

CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM  
OBTAINED WITH SUPERCRITICAL CO2 (CAS: 89997-63-7)

Oral route : LD50 = 1030 mg/kg body weight  
Species : Rat

Dermal route : LD50 > 2000 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 2.3 mg/l  
Species : Rat  
Duration of exposure : 4 h

##### b) Skin corrosion/skin irritation :

No data available.

##### c) Serious damage to eyes/eye irritation :

No data available.

##### d) Respiratory or skin sensitisation :

No data available.

##### > e) Germ cell mutagenicity :

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Mutagenesis (in vivo) : Negative.

Mutagenesis (in vitro) : Negative.  
Species : Bacteria  
OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) : Negative.

##### > f) Carcinogenicity :

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Carcinogenicity Test : Negative.  
No carcinogenic effect.  
Species : Rat  
OECD Guideline 451 (Carcinogenicity Studies)

##### g) Reproductive toxicant :

No data available.

##### > h) Specific target organ systemic toxicity - single exposure :

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Oral route : C = 400 mg/kg body weight  
Species : Rat

Inhalation route : C = 1072 mg/l/4h  
Species : Rat

##### > i) Specific target organ systemic toxicity - repeated exposure :

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Oral route : C = 400 mg/kg body weight/day  
Species : Rat

Duration of exposure : 90 days  
OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**j) Aspiration hazard :**

No data available.

**> 11.1.2. Mixture**

**11.1.2.1 Information on hazard classes**

**> a) Acute toxicity :**

Oral route : No data available.

Dermal route : No data available.

Inhalation route (Dusts/mist) : No data available.

**b) Skin corrosion/skin irritation :**

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

**c) Serious damage to eyes/eye irritation :**

Splashes in the eyes may cause irritation and reversible damage

**d) Respiratory or skin sensitisation :**

May cause an allergic reaction by skin contact.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2.2 Other information**

**Symptoms related to the physical, chemical and toxicological characteristics**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

**> SECTION 12 : ECOLOGICAL INFORMATION**

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**> 12.1.1. Substances**

ALCOOL BENZYLIQUE (CAS: 100-51-6)

Fish toxicity :

LC50 = 460 mg/l

Species : Pimephales promelas

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 230 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

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NOEC = 51 mg/l  
Species : Daphnia magna  
Duration of exposure : 21 days  
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity : ECr50 = 770 mg/l  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 310 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM  
OBTAINED WITH SUPERCRITICAL CO2 (CAS: 89997-63-7)

Fish toxicity : LC50 = 0.0052 mg/l  
Species : Oncorhynchus mykiss  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 0.012 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Aquatic plant toxicity : ECr50 = 0.0014 mg/l  
Duration of exposure : 96 h

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

#### > 12.2.1. Substances

ALCOOL BENZYLIQUE (CAS: 100-51-6)  
Biodegradability : Rapidly degradable.

CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM  
OBTAINED WITH SUPERCRITICAL CO2 (CAS: 89997-63-7)

Biodegradability : Non-rapidly degradable.

### 12.3. Bioaccumulative potential

#### > 12.3.1. Substances

ALCOOL BENZYLIQUE (CAS: 100-51-6)  
Octanol/water partition coefficient : log K<sub>ow</sub> = 1.10

CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM  
OBTAINED WITH SUPERCRITICAL CO2 (CAS: 89997-63-7)

Octanol/water partition coefficient : log K<sub>ow</sub> > 4

Bioaccumulation : BCF = 471

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

### 12.7. Other adverse effects

No data available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2025 - IMDG 2024 [42-24] - ICAO/IATA 2025 [66]).

**14.1. UN number or ID number**

3082

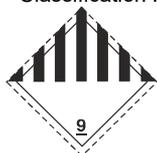
**14.2. UN proper shipping name**

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(chrysanthemum cinerariaefolium, extract from open and mature flowers of tanacetum cinerariifolium obtained with supercritical co2)

**14.3. Transport hazard class(es)**

- Classification :



9

**14.4. Packing group**

III

**14.5. Environmental hazards**

- Environmentally hazardous material :



**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601 650	E1	3	-

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 375 969	E1	Category A	-

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(chrysanthemum cinerariaefolium, extract from open and mature flowers of tanacetum cinerariifolium obtained with supercritical co2)

**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

#### > Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

#### Container information:

No data available.

#### Particular provisions :

No data available.

#### Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

#### > Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:  
<https://echa.europa.eu/fr/authorisation-list>.

#### > Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

The mixture does not contain any substance posing a risk to the ozone layer.

#### Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

#### > PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

#### Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

#### > Labelling for biocidal products (Regulation (UE) n° 528/2012) :

Name	CAS	%	g/kg	Product-type
CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CO2	89997-63-7	20.00	g/kg	18
GERANIOL	106-24-1	0.10	g/kg	18

Product-type 18 : Insecticides, acaricides and products to control other arthropods.

### 15.2. Chemical safety assessment

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

#### Wording of the phrases mentioned in section 3 :

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

**|> Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.  
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.  
EC50 : The effective concentration of substance that causes 50% of the maximum response.  
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.  
LQ : Limited Quantity  
EQ : Excepted Quantity  
EmS : Emergency Schedule  
E : Packing Instruction  
NOEC : The concentration with no observed effect.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
ATE : Acute Toxicity Estimate  
BW : Body Weight  
DNEL : Derived No-Effect Level  
PNEC : Predicted No-Effect Concentration  
UFI : Unique formulation identifier.  
STEL : Short-term exposure limit  
TWA : Moyenne pondérée dans le temps  
TMP : French Occupational Illness table  
TLV : Threshold Limit Value (exposure)  
AEV : Average Exposure Value.  
ADR : European agreement concerning the international carriage of dangerous goods by Road.  
GHS07 : Exclamation mark  
GHS09 : Environment  
IATA : International Air Transport Association.  
IMDG : International Maritime Dangerous Goods.  
ICAO : International Civil Aviation Organisation  
PBT: Persistent, bioaccumulable and toxic.  
PIC: Prior Informed Consent.  
POP: Persistent Organic Pollutant.  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
SVHC : Substances of very high concern.  
AK-ertek : Permissible average concentration  
WGK : Wassergefährdungsklasse (Water Hazard Class).  
|> Modification compared to the previous version