

Safety Data Sheet according to Reg. (EC) No 2020/878

'ITGRAIN BIGARADE

Version 5RME12 (Revision Number: 5 - Revision Date: April 2023) 1.

Ref. 21311 Page 1/6

IDE	IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING				
<u>1.1</u>	Product identifier product trade name: EC name/registration name: EC number: CAS number (EC inventory): REACh Registration Number:				
<u>1.2</u>	Relevant identified uses of relevant uses: uses advised against:	the substance and uses advised against flavouring agent - ingredient for industrial manufacturing. not for personal use in this form or concentration.			
<u>1.3</u>	Details of the supplier of the company: telephone number: responsible person: manufacturing plant: competent person SDS:	ne safety data sheet CAPUA 1880 s.r.l Zona Industriale, 89052 Campo Calabro (RC) - ITALY • www.webcapua.com phone: +390965793901 • fax: +390965797111/757792 Dr. Gianfranco Capua (CEO) • phone: +3909657939236 • mail: sales@webcapua.com Zona Industriale, 89052 Campo Calabro (RC) - ITALY mail: legis@webcapua.com			
<u>1.4</u>	Emergency telephone num supplier: poison control center:	<u>ber</u> 9:30÷17:03: +390965793901 (languages: IT, EN, FR, DE, ES) • other time: +393483852033 (languages: IT, EN, FR). Azienda Ospedaliera Niguarda Ca' Granda (MILANO - ITALY) +390266101029 (languages: IT, EN).			

HAZARDS IDENTIFICATION

2.1 Classification of the substance

Reg. (EC) No 1272/2008:	-	Asp. Tox. 1	Skin Irrit. 2	Skin Sens. 1
hazard categories:	FL4	AH1	SCI2	SS1
hazard statements:	H227	H304	H315	H317
hazard pictograms:	-	GHS08	GHS	607

Label elements 2.2 hazard pictograms:

signal word: danger hazard statements: H304, H315, H317 P210, P241, P262, P273, P280, P301/310, P303/361/353, P305/351/338, P331, P405, P501 precautionary statement:

2.3 Other hazards

Ecological information:

according to Annex XIII of REACh Regulation, the substance contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

The substance contains no constituent identified as having endocrine disrupting properties according to REACh Article 59(1) or in accordance with the criteria set out in Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

Toxicological information:

the substance contains no constituent identified as having endocrine disrupting properties according to REACh Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

COMPOSITION/INFORMATION ON INGREDIENTS 3

Substance 3.1

botanical origin:	Citrus aurantium, (L)
production process:	obtained by physical means from the leaves of the bitter orange tree.
status:	100% Natural Complex Substance
EU name:	Orange, sour, ext.
EC number:	277-143-2
CAS number (EC inventory):	72968-50-4
other CAS number:	8014-17-3
	botanical origin: production process: status: EU name: EC number: CAS number (EC inventory): other CAS number:

3.1.1 Substance: main constituents & typical values

common name	EINECS	CAS	hazards classification	content (%)
linalyl acetate	115-95-7	204-116-4	Flam. Liq. 4;H227 Skin Irrit. 2;H315 Eye Irrit. 2B;H320 Skin Sens. 1B;H317 Aquatic Acute 3;H402	≤62.00
linalool	201-134-4	78-70-6	Flam. Liq. 4;H227 Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 3;H402	≤35.00
limonene	227-813-5	5989-27-5	Flam. Liq. 3;H226 Skin Irrit. 2;H315 Skin Sens. 1B;H317 Asp. Tox. 1;H304 Aquatic Acute 1;H400 Aquatic Chronic 3;H412	≤5.00



Safety Data Sheet

	TRUS OILS AND CITRUS SPECIALITIES	according to	Reg. (EC) No 2020/878
ETIT	GRAIN BIGARAD		Ref. 21311
	RME12 (Revision Number: 5 - Re		Page 2/6
FIR	ST AID MEASURES		
4.1	Description of first aid mea		
	inhalation: contact with the skin:	move to fresh air for at least 15 minutes, in case of complaints seek medica remove contaminated clothing and wash with water and soap the contar sure you have eliminated the contamination - in case of complaints seek	ninated part, make
	contact with the eyes:	abundant eye-wash for several minutes with pure water, make sure you h contamination, in case of persistent irritation seek medical attention.	nave eliminated the
	ingestion:	ask immediately medical assistance - mouth washing with water and do not	provoke vomiting.
<u>4.2</u>	Most important symptoms	and effects, both acute and delayed	
	symptoms: acute and delayed effects:	inhalation: can cause slight headache - contact: can cause eye irritation - can ca no post-disorder effects are reported.	use slight skin rash.
<u>4.3</u>		e medical attention and special treatment needed	
	immediate medical assistance immediate/special treatment:		
	first aid specific means:	eye wash fountain / safety shower should be available in the work area.	
	·	,,,	
	EFIGHTING MEASURES		
<u>5.1</u>	Extinguishing media suitable extinguishing media:	SMALL FIRE use CO. form dry newder LARCE FIRE use water o	prover for cool
	suitable extinguishing media:	SMALL FIRE: use CO ₂ , foam, dry powder - LARGE FIRE: use water s containing vessels with water jet in order to prevent pressure build-up, autoig	
	unsuitable extinguishing media:		
5.2	Special hazards arising from	m the substance	
	vapours may form explosive	apours may form explosive mixture with air - in case of fire, the following can be released: carbon monoxide arbon dioxide (CO ₂), smoke, soot.	
5.3	Advice for firefighters		
	standard procedure for chen respiratory apparatus, avoid v	nical fires - spray extinguishing media to base of flames - use adequation inhalation.	ate protections for
ACC	CIDENTAL RELEASE MEA	ASURES	
<u>6.1</u>		ective equipment and emergency procedures	
	for non emergency personnel: for emergency responders: emergency procedures:	in an emergency (i.e. unintentional release of the substance) respirator filter A, Colour code brown) must be worn. Consider the maximum dura insulating device for respiratory protection with an independent concentration is above the usage this for filter devices or in circumstances - use adequate protections solvent resistant: security shoes, bodysuit, glo goggles (see section 8). as per non emergency personnel. remove any ignition source and ensure adequate ventilation in worki accidental releases.	ation for wear. Use air supply if the s which are unclear oves and protective
6.2	Environmental precautions		
<u></u>		away from surface and ground water.	
<u>6.3</u>	Methods and material for c	ontainment and cleaning up	
0.5	keep away from heat and u appropriate methods of waste	se non-combustible absorbing sawdust (sand, specific binder). Refer to	section 13 for the
<u>6.4</u>	Reference to other sections see section 4, 8 & 13	2	
HAN	NDLING AND STORAGE		
<u>7.1</u>	Precautions for safe handli		
	safe handling:	during handling keep original container closed - avoid contact with ski adequate protective gloves and eye/face protection - avoid any sources exposing to high temperature during processing - maintain adequate ventilation where product is handled.	of ignition - avoid
	hygiene at work:	do not ingest or apply to the skin as such - no smoking - remove contamina	ated clothing - good

7.2 Conditions for safe storage, including any incompatibilities

 container:
 to be stored in stainless steel drums, preferably under inert atmosphere (nitrogen) with minimum head space, protected from day-light. • take note: the container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long term warehousing.

 conditions:
 stored in a dry, aerated place, away from any heat source and ignition source.

 from 5 °C to 21 °C.
 from 5 °C to 21 °C.

personal washing routines should be followed - if at risk of contamination, foods, beverages

and other articles of consumption must not be stored or consumed at the work areas.

7.3 Specific end uses

use as flavouring agent - the information of this section is not related to the use of the product in combination with any other material or any other process altering its characteristics.



Safety Data Sheet

according to Reg. (EC) No 2020/878

'ITGRAIN BIGARADE

Version 5RME12 (Revision Number: 5 - Revision Date: April 2023)

Ref. 2131 Page 3/6

EXPOSURE CONTROL/PERSONAL PROTECTION 8.

8.1 Control parameters

occupational exposure limit:

Component with limit values that require monitoring at the workplace: CAS 5989-27-5, (R)-p-mentha-1,8-diene AGW (Germany): 110 mg/m³, 20 ppm, 2(II); DFG, Sh, Y

8.2 Exposure control

a good basic standard of occupational hygiene is to be implemented (see also section 7).

8.2.1 Appropriate engineering controls

where appropriate, use closed system to transfer and process this material - if appropriate, isolate mixing rooms and other areas where this material is used or openly handled - maintain these areas under negative air pressure relative to the rest of the plant.

8.2.2 Individual protection measures, such as personal protective equipment

	eye/face protection:
$\mathbf{\nabla}$	skin protection - hand:
	skin protection - other:
	respiratory protection:
<u> </u>	thermal hazards:

protective goggles with built-in-frame tested to EN166 (should be checked regularly). suitable gloves tested to EN374 (should be checked regularly) - always use with clean, dry hands. protective work clothing solvent resistant (should be checked regularly). not necessary in adequate local with general ventilation - avoid breathing vapors. none.

8.2.3 Environmental exposure controls

the usual precautions in handling chemicals have to be observed.

PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physic	al and chemical properties
	appearance:	liquid
	colour:	amber to very pale yellow
	odour:	citrusy
	odour threshold:	N/D
	pH:	N/A
	initial boiling point (& range):	N/D
	melting point/freezing point:	N/A
	flash point:	68 °C (154.4 °F)
	evaporation rate:	N/D
	upper/lower explosive limits:	N/D
	vapour pressure:	N/D
	vapour density:	N/D
	relative density d_4^{20} :	0.8790-0.8990
	solubility:	in alcohol & other oils / negligible in H ₂ O
	partition coefficient n-octanol/H ₂ O:	N/D
	auto-ignition temperature:	N/D
	decomposition temperature:	N/D
	viscosity:	N/D
	explosive properties:	none
	oxidizing properties:	none

9.2 Other information

9.2.1. Information with regard to physical hazard classes none

9.2.2. Other safety characteristics

none

10. STABILITY AND REACTIVITY

10.1Reactivity

substance not reactive with water - substance not reactive if used according to storage & handling conditions & identified uses (see subsection 1.2).

10.2 Chemical stability

substance stable if used according to storage & handling conditions & identified uses (see subsection 1.2). • shelf life: 18 months, as per recommended storage & handling conditions (see section 7).

10.3 Possibility of hazardous reactions

none if used according to storage & handling conditions & identified uses (see subsection 1.2).

Conditions to avoid 10.4

avoid exposure to heat.

10.5 Incompatible materials

highly oxidizing agents.



according to Reg. (EC) No 2020/878



Version 5RME12 (Revision Number: 5 - Revision Date: April 2023)

10.6 Hazardous decomposition products

no known hazardous decomposition products under recommended storage & handling conditions - in case of combustion: carbon monoxide (CO), carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION 11.1 Information on toxicological effects

.1	Information on toxicologica	l effects
	acute toxicity:	no data available.
	skin corrosion/irritation:	no data available.
	serious eye damage/irritation:	no data available.
	respiratory sensitisation:	no data available.
	skin sensitisation:	no data available.
	germ cell mutagenicity:	no data available.
	carcinogenity:	no data available.
	reproductive toxicity:	no data available.
	aspiration hazard:	no data available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

the substance contains no constituent identified as having endocrine disrupting properties according to REACh Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

11.2.2 Other information

no data available

12. ECOLOGICAL INFORMATION

<u>12.1 Toxicity</u>

aquatic life: no data available. fish/aquatic invertebrates: no data available.

12.2 Persistence and degradability

this substance to be considered as a readily biodegradable substance. Based on its ready biodegradability, oil does not fulfill the criteria for persistent.

12.3 Bioaccumulative potential

as the constituents are readily biodegradable, it is likely that they will also be biotransformed in higher organisms so bioaccumulation is actually not expected.

12.4 Mobility in soil

this substance is considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required.

12.5 Results of PBT and vPvB assessment

according to Annex XIII of REACh Regulation, the substance contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

12.6 Endocrine disrupting properties

the substance contains no constituent considered to have endocrine disrupting properties according to REACh Article 59(1) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

the containers used for this product must completely empty before disposal. Dispose product and/or contaminated packaging in accordance with federal, state and local environmental control regulations - disposal through the waste water is illegal.

14. TRANSPORT INFORMATION

14.1 UN Number not classified

- 14.2 UN proper shipping name not applicable
- 14.3 Transport hazard class not applicable
- 14.3.1 Transport hazard symbols not applicable



PETITGRAIN BIGARADE

Version 5RME12 (Revision Number: 5 - Revision Date: April 2023)

- 14.4 Packing group not applicable
- 14.5 Environmental hazards

none

- 14.6 Special precautions for user
 - in case of pouring out, make sure to label new package accordingly, reproducing original label with relevant symbols
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

15. REGULATORY INFORMATION

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

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACh).

15.2 Chemical Safety Assessment

N/D

16. OTHER INFORMATION

<u>a Revision</u>

Version 2RME05

Revision Number: 2 - Revision Date: February 13, 2020

• SECTION 3.1.1 SUBSTANCE: MAIN CONSTITUENTS - hazard classification revised for listed Main Constituents

Version 3RME05

Revision Number: 3 - Revision Date: July 05, 2021

 SECTION 7.2 Conditions for safe storage, including any incompatibilities – storage temperature update 3°C to 7°C → 5°C to 21°C

Version 4RME05

Revision Number: 4 - Revision Date: April 11, 2022 • SECTION 10.2 Chemical stability – shelf life update:

365 days → 547 days

Version 5RME05

Revision Number: 5 - Revision Date: April 2023 Updates to Sections: 2, 11, 12 according to Reg. (EC) No 2020/878

<u>b Legend</u>

d

CLP: Regulation (EC) No 1272/2008 Asp. Tox.: aspiration hazard Aquatic Chronic: aquatic hazard Skin Irrit.: skin irritation hazard Skin Sens.: skin sensitization hazard Eye Irrit.: eye irritation hazard Flam. Liq.: flammable liquid hazard

c Literature references and source of data

RIFM - FEMA database

- List of relevant hazard and precautionary statements
 - H227 combustible liquid
 - H304 may be fatal if swallowed and enters airways
 - H315 causes skin irritation
 - H317 may cause an allergic skin reaction
 - H319 causes serious eye irritation
 - **P210** keep away from heat/sparks/open flames/hot surfaces no smoking
 - P241 use explosion-proof electrical/ventilating/lighting/equipment
 - P262 do not get in eyes, on skin or on clothing
 - **P273** avoid release to the environment
 - P280 wear protective gloves/eye protection/face protection
 - P301/310 if swallowed: immediately call a poison center or doctor/physician
 - P303/361/353 if on skin (or hair): remove/take off immediately all contaminated clothing. rinse skin with water/shower
 - P305/351/338 if in eyes: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. continue rinsing P331 do not induce vomiting
 - P405 store locked up
 - **P501** dispose product/container in accordance with applicable regulations

according to Reg. (EC) No 2020/878

Ref. 21311 Page 5/6



TITGRAIN BIGARADE Version 5RME12 (Revision Number: 5 - Revision Date: April 2023)

Ref. 21311 Page 6/6

Inventories & other е

	CAS	ID	NOTE
EINECS	72968-50-4	277-143-2	
TSCA	8014-17-3	-	
IECSC	8014-17-3	-	
KECI	8014-17-3	KE-26791	
DSL	8014-17-3	-	
AICS	8014-17-3	-	
ENCS - ISHL	8014-17-3	11-(1)-846	
NZIOC	8014-17-3	-	
PICCS	8014-17-3	-	
FEMA	8014-17-3	2855	
RIFM	8014-17-3	233-E2.12	
HS Code	-	3301121000	EU TARIC

Further information <u>f</u>

the information on this SDS is correct to the best of our knowledge, covering the involved product at the date of its publication. They apply to the product as such as per the described specifications. The information is not related to the use of the product in combination with any other material or any other process altering its characteristics. The end user should apply to the existing normative and laws covering the use of the product, the hygiene and security at work. The container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long term warehousing. Upon receipt, our product must be stored as soon as possible in compliance with section 7.2 of this SDS. The information given in this SDS is in accordance with the Reg. (EC) No 2020/878.