

### Revision nr. 4 Dated 03/11/2022

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

1.1. Product identifier

Mixture identification: Product Name: Code:

GINGIFAST CAD RIGID - BASE C203232, C430003

**1.2. Relevant identified uses of the substance or mixture and uses advised against** For professional use only. Addition silicone for the reproduction of gingival masks.

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

Name Zhermack S.p.a Via Bovazecchino 100 45021 Badia Polesine (RO) Italy tel. +39 0425-597611 fax +39 0425-597689 Competent person responsible for the safety data sheet:

msds@zhermack.com

1.4. Emergency telephone number

+39 0425 597611 (office hours)

#### SECTION 2: Hazards identification

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

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments: None

#### 2.3. Other hazards

There is no exposure to breathable free crystalline silica during normal use of this product. For more information see section 11.

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards:

No other hazards

Revision nr. 4 Page n. 1 of 10



#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not Applicable

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb	ber	Classification
>= 13% - < 20%	Cristobalite	CAS: EC:	14464-46-1 238-455-4	STOT RE 1 H372 Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.
<0,09%	octamethylcyclotetrasil oxane; [D4]	Index number: CAS: EC:	014-018-00-1 556-67-2 209-136-7	Flam. Liq. 3 H226 Flammable liquid and vapour. Repr. 2 H361f Suspected of damaging fertility. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=10.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

- 4.2. Most important symptoms and effects, both acute and delayed None
- 4.3. Indication of any immediate medical attention and special treatment needed Treatment: None

#### SECTION 5: Firefighting measures

- 5.1. Extinguishing media
  - Suitable extinguishing media: Water. Carbon dioxide (CO2). Extinguishing media which must not be used for safety reasons: None in particular.
- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

Revision nr. 4 Page n. 2 of 10



#### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - For non emergency personnel:

Wear personal protection equipment.

- Remove persons to safety.
- See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

- Wash with plenty of water.
- 6.4. Reference to other sections See also section 8 and 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. See also section 8 for recommended protective equipment. Advice on general occupational hygiene: Do not eat or drink while working.

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

Keep away from food, drink and feed. Incompatible materials: See section 10.5. Instructions as regards storage premises: Adequately ventilated premises.

### 7.3. Specific end use(s)

See section 1.2.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters GINGIFAST CAD RIGID - BASE Cristobalite - CAS: 14464-46-1

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
EU	0.1 mg/m3	8h			Respirable	
TLV	0.1 mg/m3	8h			Respirable	ITALY
ACGIH	0.025 mg/m3	8h			(R), A2 - Pulm fibrosis, lung cancer	

octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2

OEL Type	TWA	D	uratio	STEL	Duratio	Notes	Country
		n			n		



No data available								
DNEL Exposure Lin	nit Value:	6						
Not available								
PNEC Exposure Lin	nit Value	S						
Not available								
8.2. Exposure cont								
Precautionary meas								
Give adequat	e ventila	tion to the	e premise	s where th	ne produc	t is stored	and/or hand	led.
Eye protection:			·					
Wear airtight	protectiv	e goggles	s (EN 166	).				
Protection for skin:								
Wear profess		eralls and	safety for	otwear (El	N 14605).			
Protection for hands			(EN 074)					
Protect hands					n work ala	wa matari		
The following compatibility,						ove materi	ai (EN 374).	
The work glov						hackad ha	fore use as	it can be
unpredictable								
Respiratory protection		100 1100			no daran	on and typ	0 01 000.	
Use respirato		tion wher	e ventilat	ion is insu	fficient or	exposure	is prolonged	
Respiratory p						•		
suitable for re								
TLV-TWA).	Ū		•				, ,	•
Thermal Hazards:								
None								
Environmental expo	sure con	trols:						
None								
Appropriate enginee	ering con	trols:						
None								

# SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Physical state:	Viscous fluid		
Colour:	Pink		
Odour:	Odourless		
Melting point/freezing point:	Not available		
Boiling point or initial boiling point and boiling range:	Not available		
Flammability:	Not available		
Lower and upper explosion limit:	Not available		
Flash point:	Not available		
Auto-ignition temperature:	Not available		
Decomposition temperature:	Not available		
pH:	Not available		
Kinematic viscosity:	Not available		
Solubility in water:	Insoluble		
Solubility in oil:	Not available		



Partition coefficient n-octanol/water (log value):	Not available	 
Vapour pressure:	Not available	 
Density and/or relative density:	Not available	 
Relative vapour density:	Not available	 
	Particle characteristics:	
Particle size:	Not available	 

#### 9.2. Other information

No other relevant information

#### SECTION 10: Stability and reactivity

- 10.1. Reactivity
  - Stable under normal conditions
- 10.2. Chemical stability Stable under normal conditions
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid Stable under normal conditions.
- **10.5. Incompatible materials** None in particular.
- **10.6. Hazardous decomposition products** None.

#### SECTION 11: Toxicological information

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

"For the purposes of classification of health hazards (part 3), the route of exposure, information on mechanisms and metabolism studies are useful for determining the relevance of effects in humans. If this information raises doubts as to their relevance in humans, in spite of the indisputable data legitimacy and quality, a lower classification may be justified. When there is scientific evidence that the mechanism or mode of action is not relevant to humans, the substance or mixture should not be classified" (annex I, section 1.1.1.5, EC Regulation 1272/2008).

Monitoring activities conducted at the company related to possible inhalation exposure, in accordance with industrial hygiene standards for paste and fluid products, showed levels of exposure to free crystalline silica (breathable part) below the limit of quantification of the method, therefore exposure is not expected during the use indicated in section 1.2 for this specific product. However, the actual levels of free crystalline silica (breathable part) present in the workplace must be obtained through monitoring as required by regulations for the safety and health of workers.

Toxicological information of the product:

**GINGIFAST CAD RIGID - BASE** 

- a) acute toxicity
  - Not classified
- b) skin corrosion/irritation Not classified
- c) serious eye damage/irritation Not classified
- d) respiratory or skin sensitisation

Revision nr. 4 Page n. 5 of 10

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Not classified

- e) germ cell mutagenicity Not classified
- f) carcinogenicity Not classified
- g) reproductive toxicity Not classified
- h) STOT-single exposure Not classified
- i) STOT-repeated exposure Not classified
- j) aspiration hazard Not classified

Toxicological information of the main substances found in the product:

- Cristobalite CAS: 14464-46-1
- i) STOT-repeated exposure:

Route: Inhalation - Notes: Silicosis, pulmonary fibrosis; Target organ: lungs - Source: (MSDS supplier).

octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2

a) acute toxicity:

Test: LC50 - Species: Rat 36 mg/l - Source: (OECD 403, GLP, rat, 4 h, ECHA dossier). Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: (similar to OECD 402, rat, ECHA dossier). Test: LD50 - Route: Oral - Species: Rat 4800 mg/kg - Source: (similar to OECD 401, rat, ECHA dossier).

#### 11.2. Information on other hazards

Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1%

#### SECTION 12: Ecological information

The product is not classified for chronic aquatic hazard: a test based on the bioavailability / release of D4 by the polymer silicone was performed with the OECD 29 method. It was found that the quantity of D4 released by 100mg of polymer is at least below the quantification limit of the method (i.e. 4.4 ppb), a value significantly lower than the limit that would result in the classification for chronic aquatic toxicity, i.e. NOEC of 0.0044 mg / L for fish and 0.0079 mg / L for aquatic invertebrates. Therefore, the product is not classified for this hazard class.

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. GINGIFAST CAD RIGID - BASE

The product is classified: -

octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2

- a) Aquatic acute toxicity:
  - Endpoint: IC50 Species: Algae > 0.0022 mg/l Duration h: 72h (EPA OTS 797.1050, Selenastrum capricornutum, freshwater, ECHA dossier).
  - Endpoint: LC50 Species: Fish > 0.0022 mg/l (Oncorhynchus mykiss, GLP, ECHA dossier).

Endpoint: NOEC - Species: Fish > 0.0044 mg/l (publication, Oncorhynchus mykiss, GLP, ECHA dossier).

Revision nr. 4 Page n. 6 of 10

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Long-term toxicity to aquatic invertebrates: Endpoint: NOEC - Species: Daphnia = 7.9 μg/L - Duration h: 21d EPA OTS 797.1330, Daphnia magna, ECHA dossier

#### 12.2. Persistence and degradability

Cristobalite - CAS: 14464-46-1

Biodegradability: Non-readily biodegradable

#### 12.3. Bioaccumulative potential

Cristobalite - CAS: 14464-46-1 Not bioaccumulative octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2 Test: Kow - Partition coefficient 6.49 - Notes: (Log Pow, ECHA dossier).

#### **12.4. Mobility in soil** Not available

12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects None

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

#### **SECTION 14: Transport information**

#### 14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

- 14.2. UN proper shipping name Not available
- 14.3. Transport hazard class(es) Not available
- 14.4. Packing group
  - Not available
- 14.5. Environmental hazards ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No
- 14.6. Special precautions for user Not available
- 14.7. Maritime transport in bulk according to IMO instruments Not Applicable

#### **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP)

Revision nr. 4 Page n. 7 of 10

Zhermack //

Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: **Restriction 3 Restriction 40** Restrictions related to the substances contained: Restriction 70 **Restriction 75** Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1

None

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)

Lagerklasse according to TRGS 510: LGK 10: Combustible liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.

California Proposition 65

Substance(s) listed under California Proposition 65: Cristobalite - Listed as carcinogen.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: None

#### **SECTION 16: Other information**

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic	According to Article 12 of the CLP Regulation, "Where, as a result of the evaluation carried out pursuant to Article 9, the following properties or effects are identified, manufacturers, importers and downstream users shall take them into account for the purposes of classification: [] (b) conclusive scientific experimental data show that the substance or mixture is not biologically available and those data have been ascertained to be adequate and reliable." Following a release study of D4 through the OECD 29 test on polymeric products representative for quantity of D4, the limit that would result in the classification for chronic aquatic toxicity (NOEC of 0.0044 mg / L for fish and 0.0079 mg / L for invertebrates aquatic) is not reached.

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECHA – European Chemical Agency

GESTIS - Information system on hazardous substances of the German Social Accident Insurance

IARC – International Agency for Research on Cancer

IPCS INCHEM - International Programme on Chemical Safety

ISS - Istituto Superiore di Sanità

PubChem - open chemistry database at the National Institutes of Health (NIH)

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

European Agreement concerning the International Carriage of
Dangerous Goods by Road.
Acute Toxicity Estimate
Acute toxicity Estimate (Mixtures)
Chemical Abstracts Service (division of the American Chemical
Society).
Classification, Labeling, Packaging.
Derived No Effect Level.
European Inventory of Existing Commercial Chemical Substances.
Ordinance on Hazardous Substances, Germany.
Globally Harmonized System of Classification and Labeling of
Chemicals.
International Air Transport Association.

Revision nr. 4 Page n. 9 of 10

Zhermack 4

IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Áviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.



### Revision nr. 4 Dated 03/11/2022

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

#### 1.1. Product identifier

Mixture identification: Product Name: Code:

GINGIFAST CAD RIGID -CATALYST C203232, C430003

**1.2. Relevant identified uses of the substance or mixture and uses advised against** For professional use only. Addition silicone for the reproduction of gingival masks.

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

Name Zhermack S.p.a Via Bovazecchino 100 45021 Badia Polesine (RO) Italy tel. +39 0425-597611 fax +39 0425-597689 Competent person responsible for the safety data sheet:

msds@zhermack.com

1.4. Emergency telephone number

+39 0425 597611 (office hours)

#### **SECTION 2: Hazards identification**

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

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Adverse physicochemical, human health and environmental effects:

# No other hazards **2.2. Label elements**

\_\_\_\_\_

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms: None Hazard statements: None Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments: None

#### 2.3. Other hazards

There is no exposure to breathable free crystalline silica during normal use of this product. For more information see section 11.

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%



Other Hazards: No other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not Applicable

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb	er	Classification
>= 10% - < 12,5%	Cristobalite	CAS: EC:	14464-46-1 238-455-4	STOT RE 1 H372 Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.
<0,09%	octamethylcyclotetrasil oxane; [D4]	Index number: CAS: EC:	014-018-00-1 556-67-2 209-136-7	Flam. Liq. 3 H226 Flammable liquid and vapour. Repr. 2 H361f Suspected of damaging fertility. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=10.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### 4.2. Most important symptoms and effects, both acute and delayed

- None
- **4.3. Indication of any immediate medical attention and special treatment needed** Treatment:
  - None

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Water. Carbon dioxide (CO2). Extinguishing media which must not be used for safety reasons: None in particular. **5.2. Special hazards arising from the substance or mixture** 

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .



Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

#### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - For non emergency personnel: Wear personal protection equipment.
  - Remove persons to safety.

  - See protective measures under point 7 and 8.
  - For emergency responders:
  - Wear personal protection equipment.

#### 6.2. Environmental precautions

- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
  - Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. See also section 8 for recommended protective equipment. Advice on general occupational hygiene: Do not eat or drink while working. 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed. Incompatible materials: See section 10.5. Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

#### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

GINGIFAST CAD RIGID -CATALYST Cristobalite - CAS: 14464-46-1

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
EU	0.1	8h			Respirable	
	mg/m3					
TLV	0.1	8h			Respirable	ITALY
	mg/m3					
ACGIH	0.025	8h			(R), A2 -	
	mg/m3				Pulm	
	_				fibrosis,	
					lung	
					cancer	



octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
No data available						

DNEL Exposure Limit Values

Not available

PNEC Exposure Limit Values

Not available

8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled. Eye protection:

Wear airtight protective goggles (EN 166).

Protection for skin:

Wear professional overalls and safety footwear (EN 14605).

Protection for hands:

Protect hands with work gloves (EN 374).

The following should be considered when choosing work glove material (EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g. TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

#### SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Physical state:	Liquid		
Colour:	Pink		
Odour:			
Melting point/freezing point:	Not available		
Boiling point or initial boiling point and boiling range:	Not available		
Flammability:	Not available		
Lower and upper explosion limit:	Not available		
Flash point:	Not available		
Auto-ignition temperature:	Not available		
Decomposition	Not available		



temperature:					
pH:	Not available				
Kinematic viscosity:	Not available				
Solubility in water:	Insoluble				
Solubility in oil:	Not available				
Partition coefficient	Not available				
n-octanol/water (log value):					
Vapour pressure:	Not available				
Density and/or relative	Not available				
density:					
Relative vapour density:	Not available				
Particle characteristics:					
Particle size:	Not available				

#### 9.2. Other information

No other relevant information

#### SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

- 10.2. Chemical stability Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- **10.4. Conditions to avoid** Stable under normal conditions.
- **10.5. Incompatible materials** None in particular.
- **10.6. Hazardous decomposition products** None.

#### SECTION 11: Toxicological information

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

"For the purposes of classification of health hazards (part 3), the route of exposure, information on mechanisms and metabolism studies are useful for determining the relevance of effects in humans. If this information raises doubts as to their relevance in humans, in spite of the indisputable data legitimacy and quality, a lower classification may be justified. When there is scientific evidence that the mechanism or mode of action is not relevant to humans, the substance or mixture should not be classified" (annex I, section 1.1.1.5, EC Regulation 1272/2008).

Monitoring activities conducted at the company related to possible inhalation exposure, in accordance with industrial hygiene standards for paste and fluid products, showed levels of exposure to free crystalline silica (breathable part) below the limit of quantification of the method, therefore exposure is not expected during the use indicated in section 1.2 for this specific product.

However, the actual levels of free crystalline silica (breathable part) present in the workplace must be obtained through monitoring as required by regulations for the safety and health of workers.

Toxicological information of the product:

GINGIFAST CAD RIGID -CATALYST a) acute toxicity Not classified

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- b) skin corrosion/irritation Not classified
- c) serious eye damage/irritation Not classified
- d) respiratory or skin sensitisation Not classified
- e) germ cell mutagenicity Not classified
- f) carcinogenicity Not classified
- g) reproductive toxicity Not classified
- h) STOT-single exposure Not classified
- i) STOT-repeated exposure Not classified
- j) aspiration hazard Not classified

Toxicological information of the main substances found in the product:

Cristobalite - CAS: 14464-46-1

i) STOT-repeated exposure:

Route: Inhalation - Notes: Silicosis, pulmonary fibrosis; Target organ: lungs - Source: (MSDS supplier).

octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2

a) acute toxicity:

Test: LC50 - Species: Rat 36 mg/l - Source: (OECD 403, GLP, rat, 4 h, ECHA dossier). Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: (similar to OECD 402, rat, ECHA dossier). Test: LD50 - Route: Oral - Species: Rat 4800 mg/kg - Source: (similar to OECD 401, rat,

Test: LD50 - Route: Oral - Species: Rat 4800 mg/kg - Source: (similar to OECD 401, rat, ECHA dossier).

#### **11.2. Information on other hazards**

Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1%

#### **SECTION 12: Ecological information**

The product is not classified for chronic aquatic hazard: a test based on the bioavailability / release of D4 by the polymer silicone was performed with the OECD 29 method. It was found that the quantity of D4 released by 100mg of polymer is at least below the quantification limit of the method (i.e. 4.4 ppb), a value significantly lower than the limit that would result in the classification for chronic aquatic toxicity, i.e. NOEC of 0.0044 mg / L for fish and 0.0079 mg / L for aquatic invertebrates. Therefore, the product is not classified for this hazard class.

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. GINGIFAST CAD RIGID -CATALYST



octar	The product is classified: - methylcyclotetrasiloxane; [D4] - CAS: 556-67-2 a) Aquatic acute toxicity: Endpoint: IC50 - Species: Algae > 0.0022 mg/I - Duration h: 72h (EPA OTS 797.1050, Selenastrum capricornutum, freshwater, ECHA dossier). Endpoint: LC50 - Species: Fish > 0.0022 mg/I (Oncorhynchus mykiss, GLP, ECHA dossier). Endpoint: NOEC - Species: Fish > 0.0044 mg/I (publication, Oncorhynchus mykiss, GLP, ECHA dossier). Long-term toxicity to aquatic invertebrates: Endpoint: NOEC - Species: Daphnia = 7.9 μg/L - Duration h: 21d EPA OTS 797.1330,
	Daphnia magna, ECHA dossier
12.2.	Persistence and degradability Cristobalite - CAS: 14464-46-1
	Biodegradability: Non-readily biodegradable
12.3.	Bioaccumulative potential
	Cristobalite - CAS: 14464-46-1
	Not bioaccumulative
	octamethylcyclotetrasiloxane; [D4] - CAS: 556-67-2
	Test: Kow - Partition coefficient 6.49 - Notes: (Log Pow, ECHA dossier).
12.4.	Mobility in soil
	Not available
12.5.	Results of PBT and vPvB assessment
	vPvB Substances: None - PBT Substances: None
12.6.	Endocrine disrupting properties
	No endocrine disruptor substances present in concentration >= 0.1%
12.7.	Other adverse effects
	None
	13: Disposal considerations
13.1.	Waste treatment methods
	Recover if possible. In so doing, comply with the local and national regulations currently in force.
SECTION	14: Transport information
111	UN number or ID number
14.1.	Not classified as dangerous in the meaning of transport regulations.
1/ 2	UN proper shipping name
14.2.	Not available
1/ 2	Transport hazard class(es)
14.3.	

- Not available 14.4. Packing group Not available
- 14.5. Environmental hazardsADR-Enviromental Pollutant:NoIMDG-Marine pollutant:No
- **14.6. Special precautions for user** Not available
- 14.7. Maritime transport in bulk according to IMO instruments Not Applicable

### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** Dir. 98/24/EC (Risks related to chemical agents at work)

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Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: **Restriction 3** Restriction 40 Restrictions related to the substances contained: Restriction 70 **Restriction 75** Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe) Lagerklasse according to TRGS 510: LGK 10: Combustible liquids Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. California Proposition 65 Substance(s) listed under California Proposition 65: Cristobalite - Listed as carcinogen. 15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: None

#### **SECTION 16: Other information**

Hazard class and

Code

Description



hazard category		
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic	According to Article 12 of the CLP Regulation, "Where, as a result of the evaluation carried out pursuant to Article 9, the following properties or effects are identified, manufacturers, importers and downstream users shall take them into account for the purposes of classification: [] (b) conclusive scientific experimental data show that the substance or mixture is not biologically available and those data have been ascertained to be adequate and reliable." Following a release study of D4 through the OECD 29 test on polymeric products representative for quantity of D4, the limit that would result in the classification for chronic aquatic toxicity (NOEC of 0.0044 mg / L for fish and 0.0079 mg / L for invertebrates aquatic) is not reached.

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECHA – European Chemical Agency GESTIS - Information system on hazardous substances of the German Social Accident Insurance IARC – International Agency for Research on Cancer IPCS INCHEM – International Programme on Chemical Safety ISS – Istituto Superiore di Sanità PubChem - open chemistry database at the National Institutes of Health (NIH)

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of
	Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
	Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.

Zhermack 4

EINECS: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Áviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.



### Revision nr. 6 Dated 04/11/2022

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

1.1. Product identifier

Mixture identification: Product Name: Code:

SEPARATOR FOR GINGIFAST C400888, C203227, C203232, C401500, C401520

**1.2. Relevant identified uses of the substance or mixture and uses advised against** For professional use only. Isolator between two surfaces.

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

Name Zhermack S.p.a Via Bovazecchino 100 45021 Badia Polesine (RO) Italy tel. +39 0425-597611 fax +39 0425-597689 Competent person responsible for the safety data sheet:

msds@zhermack.com

**1.4. Emergency telephone number** UK Emergency number: 999 (24 hours)

#### SECTION 2: Hazards identification

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

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 2, H225 Highly flammable liquid and vapour.

Eye Irrit. 2, H319 Causes serious eye irritation.

STOT SE 3, H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

#### No other hazards

#### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Revision nr. 6 Page n. 1 of 11



P312 Call a POISON CENTER if you feel unwell. Special Provisions: EUH066 Repeated exposure may cause skin dryness or cracking. Contains

ethyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments: None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not Applicable

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb	er	Classification
>= 80% -	ethyl acetate	Index	607-022-00-5	STOT SE 3 H336 May cause
< 90%		number:		drowsiness or dizziness.
		CAS:	141-78-6	Flam. Liq. 2 H225 Highly
		EC:	205-500-4	flammable liquid and vapour.
		REACH No.:	01-21194751	Eye Irrit. 2 H319 Causes serious
			03-46-XXXX	eye irritation.
				EUH066 Repeated exposure may
				cause skin dryness or cracking.
				Specific Concentration Limits:
				C >= 10%: EUH066

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all 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. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**4.2. Most important symptoms and effects, both acute and delayed** None

Revision nr. 6 Page n. 2 of 11



#### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

None

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: CO2 or Dry chemical fire extinguisher. Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### SECTION 6: Accidental release measures

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

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

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

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Revision nr. 6 Page n. 3 of 11

Zhermack 4

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed. Incompatible materials: See section 10.5. Instructions as regards storage premises: Cool and adequately ventilated.

#### 7.3. Specific end use(s)

See section 1.2.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

SEPARATOR FOR GINGIFAST ethyl acetate - CAS: 141-78-6

OEL Type	TWA		Duratio n	STEL		Duratio n	Notes	Country
MAK	750	200	8h	1500	400	15min		GERMANY
	mg/m3	ppm	•	mg/m3	ppm			
AGW	730	200	8h	1460	400	15min		GERMANY
	mg/m3	ppm		mg/m3	ppm			
MAK	730	200	8h	1460	400	15min		SWITZERLA
	mg/m3	ppm		mg/m3	ppm			ND
AK	1400		8h	1400		15min		HUNGARY
	mg/m3			mg/m3				
HTP	730	200	8h	1470	400	15min		FINLAND
	mg/m3	ppm		mg/m3	ppm			
MAK	734	200	8h	1468	400	15min		AUSTRIA
	mg/m3	ppm		mg/m3	ppm			
NDS/NDSCh	200		8h	600		15min		POLAND
	mg/m3			mg/m3				
NGV/KGV	550	150	8h	1100	300	15min		SWEDEN
	mg/m3	ppm		mg/m3	ppm			
OELV		200	8h		400	15min		IRELAND
		ppm			ppm			
VLEP	734	200	8h	1468	400	15min		ITALY
	mg/m3	ppm		mg/m3	ppm			
RV	200	54 ppm	8h	1468	400	15min		LATVIA
	mg/m3			mg/m3	ppm			
TLV	400	111	8h	500	139	15min		ROMANIA
	mg/m3	ppm		mg/m3	ppm			
TLV	540	150	8h	1080	300	15min		DENMARK
	mg/m3	ppm		mg/m3	ppm			
VLEP	734	200	8h	1468	400	15min		FRANCE
	mg/m3	ppm		mg/m3	ppm			
VLEP	734	200	8h	1468	400	15min		BELGIUM
	mg/m3	ppm		mg/m3	ppm			
WEL	730	200	8h	1460	400	15min		UNITED
	mg/m3	ppm		mg/m3	ppm			KINGDOM
VLA	1460	400	8h					SPAIN
	mg/m3	ppm						
EU	734	200	8h	1468	400			
	mg/m3	ppm		mg/m3	ppm			
TLV-ACGIH		400	8h				URT and	

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	ppm			eye irr	
ACGIH	400	8h		URT and	
	ppm			eye irr	

DNEL Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Worker Professional: 1468 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Professional: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long

Term, local effects Worker Professional: 1469 mg/m2 - Exposure: Human Inhalation - Frequency: Shar

Worker Professional: 1468 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 63 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Target: Fresh Water - Value: 0.26 mg/l

Target: Marine water - Value: 0.026 mg/l

Target: Soil (agricultural) - Value: 0.24 mg/kg

- Target: Marine water sediments Value: 0.125 mg/kg
- Target: Freshwater sediments Value: 1.25 mg/kg

#### 8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled. Eye protection:

Wear airtight protective goggles (EN 166).

Protection for skin:

Wear professional overalls and safety footwear (EN 14605).

Protection for hands:

Suitable material:

NBR (nitrile rubber - EN 374).

The following should be considered when choosing work glove material (EN 374):

compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Respiratory protection:

Mask with filter "A" , brown colour

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g. TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

#### SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Physical state:	Liquid		



Colour:	Opaque		
Odour:	Typical of solvent		
Melting point/freezing point:	Not available		
Boiling point or initial boiling point and boiling range:	76	ASTM D 1120	
Flammability:	Flam. Liq. 2, H225		
Lower and upper explosion limit:	Not available		
Flash point:	-1 ° C	ASTM D93-19	
Auto-ignition temperature:	Not available		
Decomposition	Not available		
temperature:			
pH:	Not Relevant		
Kinematic viscosity:	Not available		
Solubility in water:	Insoluble		
Solubility in oil:	Not available		
Partition coefficient n-octanol/water (log value):	Not available		
Vapour pressure:	Not available		
Density and/or relative density:	0.93 g/cm3 (calculated)		
Relative vapour density:	Not available		
	Particle characteristics:		
Particle size:	Not available		

#### 9.2. Other information

No other relevant information

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

- Stable under normal conditions
- **10.2. Chemical stability**
- Stable under normal conditions

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### **10.4. Conditions to avoid** Heat, direct sunlight. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

# 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

flammable gases / vapors acetic acid

### SECTION 11: Toxicological information

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

Toxicological information of the product:

Revision nr. 6 Page n. 6 of 11

Zhermack 🖅

SEPARATOR FOR GINGIFAST a) acute toxicity Not classified b) skin corrosion/irritation Not classified c) serious eye damage/irritation The product is classified: Eye Irrit. 2 H319 d) respiratory or skin sensitisation Not classified e) germ cell mutagenicity Not classified f) carcinogenicity Not classified g) reproductive toxicity Not classified h) STOT-single exposure The product is classified: STOT SE 3 H336 i) STOT-repeated exposure Not classified i) aspiration hazard Not classified Toxicological information of the main substances found in the product: ethyl acetate - CAS: 141-78-6 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat 4934 mg/kg - Source: (OECD 401, MSDS supplier). Test: LD50 - Route: Skin - Species: Rabbit > 18000 mg/kg - Source: (MSDS supplier). Test: LC50 - Route: Inhalation - Species: Rat 56 mg/l - Duration: 4h - Source: (SDS supplier). b) skin corrosion/irritation: Species: Rabbit - Based on available data, the classification criteria are not met -

Species: Rabbit - Based on available data, the classification criteria are not met - Source: (OECD TG 404, MSDS supplier).

c) serious eye damage/irritation:

Species: Rabbit - Based on available data, the classification criteria are not met - Source: (OECD TG 405, MSDS supplier).

d) respiratory or skin sensitisation:

Species: Guinea pig - Based on available data, the classification criteria are not met - Source: (OECD TG 406, MSDS supplier).

#### 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. SEPARATOR FOR GINGIFAST

Not classified for environmental hazards

Revision nr. 6 Page n. 7 of 11

Zhermack //

Based on available data, the classification criteria are not met
ethyl acetate - CAS: 141-78-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 230 mg/l - Duration h: 96h (Salmo gairdneri, MSDS
supplier).
Endpoint: EC50 - Species: Daphnia 3090 mg/l - Duration h: 24h (Daphnia magna, DIN 38412, MSDS supplier).
Endpoint: EC50 - Species: Algae 3300 mg/l - Duration h: 48h (Scenedesmus subspicatus, MSDS supplier).
Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72h (Desmodesmus
subspicatus, MSDS supplier).
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia 2.4 mg/l - Duration h: 21d (Daphnia magna, MSDS supplier).
12.2. Persistence and degradability
ethyl acetate - CAS: 141-78-6
Biodegradability: Readily biodegradable
12.3. Bioaccumulative potential
Not available
12.4. Mobility in soil
Not available
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects
None
CTION 13: Disposal considerations

#### SECTION 13: Disposal consideratio 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information



14.1. UN number or ID number	
ADR-UN Number:	1173
IATA-UN Number:	1173
IMDG-UN Number:	1173
14.2. UN proper shipping name	
ADR-Shipping Name:	ETHYL ACETATE
IATA-Shipping Name:	ETHYL ACETATE
IMDG-Shipping Name:	ETHYL ACETATE
14.3. Transport hazard class(es)	
ADR-Class:	3
IATA-Class:	3

Revision nr. 6 Page n. 8 of 11

Zhermack //

IATA-Label:	3
IMDG-Class:	3
14.4. Packing group	
ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
14.5. Environmental hazards	
ADR-Enviromental Pollutant:	Νο
IMDG-Marine pollutant:	Νο
IMDG-EmS:	F-E , S-D
14.6. Special precautions for user	
ADR-Subsidiary hazards:	-
ADR-S.P.:	-
ADR-Transport category (Tunn	el restriction code): 2 (D/E)
ADR - Hazard identification nu	mber: 33
IATA-Passenger Aircraft:	353
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	364
IATA-S.P.:	-
IATA-ERG:	3L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category B
IMDG-Segregation:	-
14.7. Maritime transport in bulk acc	cording to IMO instruments

Not Applicable

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

**Restriction 3** 

**Restriction 40** 

Restrictions related to the substances contained:

Revision nr. 6 Page n. 9 of 11

Zhermack //

**Restriction 75** 

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 Product belongs to category: P5c

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe) WGK1 - Slightly hazardous for water

Lagerklasse according to TRGS 510: LGK 3: Flammable liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.

California Proposition 65 Substance(s) listed under California Proposition 65: None.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: None

#### **SECTION 16: Other information**

Full text of phrases referred to in Section 3:

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECHA – European Chemical Agency GESTIS - Information system on hazardous substances of the German Social Accident Insurance IARC – International Agency for Research on Cancer IPCS INCHEM – International Programme on Chemical Safety ISS – Istituto Superiore di Sanità PubChem - open chemistry database at the National Institutes of Health (NIH)

Revision nr. 6 Page n. 10 of 11



The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
•	Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of
	Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport
	Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"
	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STEL: STOT:	Short Term Exposure limit. Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.
WOIN.	