

**Safety Data Sheet  
SEPARATOR FOR GINGIFAST****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:

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Code:

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.

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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. Number	Classification
$\geq 80\%$ - $< 90\%$	ethyl acetate	Index number: CAS: 141-78-6 EC: 205-500-4 REACH No.: 01-21194751 03-46-XXXX	STOT SE 3 H336 May cause drowsiness or dizziness. Flam. Liq. 2 H225 Highly flammable liquid and vapour. Eye Irrit. 2 H319 Causes serious eye irritation. EUH066 Repeated exposure may cause skin dryness or cracking. Specific Concentration Limits: C $\geq 10\%$ : 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 immediately 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 ophthalmologist 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

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#### 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:

Contaminated 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.

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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

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ethyl acetate - CAS: 141-78-6

OEL Type	TWA		Duration	STEL		Duration	Notes	Country
MAK	750 mg/m <sup>3</sup>	200 ppm	8h	1500 mg/m <sup>3</sup>	400 ppm	15min		GERMANY
AGW	730 mg/m <sup>3</sup>	200 ppm	8h	1460 mg/m <sup>3</sup>	400 ppm	15min		GERMANY
MAK	730 mg/m <sup>3</sup>	200 ppm	8h	1460 mg/m <sup>3</sup>	400 ppm	15min		SWITZERLAND
AK	1400 mg/m <sup>3</sup>		8h	1400 mg/m <sup>3</sup>		15min		HUNGARY
HTP	730 mg/m <sup>3</sup>	200 ppm	8h	1470 mg/m <sup>3</sup>	400 ppm	15min		FINLAND
MAK	734 mg/m <sup>3</sup>	200 ppm	8h	1468 mg/m <sup>3</sup>	400 ppm	15min		AUSTRIA
NDS/NDSch	200 mg/m <sup>3</sup>		8h	600 mg/m <sup>3</sup>		15min		POLAND
NGV/KGV	550 mg/m <sup>3</sup>	150 ppm	8h	1100 mg/m <sup>3</sup>	300 ppm	15min		SWEDEN
OELV		200 ppm	8h		400 ppm	15min		IRELAND
VLEP	734 mg/m <sup>3</sup>	200 ppm	8h	1468 mg/m <sup>3</sup>	400 ppm	15min		ITALY
RV	200 mg/m <sup>3</sup>	54 ppm	8h	1468 mg/m <sup>3</sup>	400 ppm	15min		LATVIA
TLV	400 mg/m <sup>3</sup>	111 ppm	8h	500 mg/m <sup>3</sup>	139 ppm	15min		ROMANIA
TLV	540 mg/m <sup>3</sup>	150 ppm	8h	1080 mg/m <sup>3</sup>	300 ppm	15min		DENMARK
VLEP	734 mg/m <sup>3</sup>	200 ppm	8h	1468 mg/m <sup>3</sup>	400 ppm	15min		FRANCE
VLEP	734 mg/m <sup>3</sup>	200 ppm	8h	1468 mg/m <sup>3</sup>	400 ppm	15min		BELGIUM
WEL	730 mg/m <sup>3</sup>	200 ppm	8h	1460 mg/m <sup>3</sup>	400 ppm	15min		UNITED KINGDOM
VLA	1460 mg/m <sup>3</sup>	400 ppm	8h					SPAIN
EU	734 mg/m <sup>3</sup>	200 ppm	8h	1468 mg/m <sup>3</sup>	400 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/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 1468 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 734 mg/m<sup>3</sup> - 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	--	--

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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 temperature:	Not available	--	--
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/cm <sup>3</sup> (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:

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- 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
- j) 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 - 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  $\geq$  0.1%

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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Not classified for environmental hazards

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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  $\geq 0.1\%$

**12.7. Other adverse effects**

None

**SECTION 13: Disposal considerations****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



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IATA-Label:	3
IMDG-Class:	3
<b>14.4. Packing group</b>	
ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
<b>14.5. Environmental hazards</b>	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
IMDG-EmS:	F-E , S-D
<b>14.6. Special precautions for user</b>	
ADR-Subsidiary hazards:	-
ADR-S.P.:	-
ADR-Transport category (Tunnel restriction code):	2 (D/E)
ADR - Hazard identification number:	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:	-
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
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:

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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)

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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:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.