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Safety Data Sheet BENEFIX®

Safety Data Sheet dated 15/7/2021, edition 3, version 5

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

1.1. Product identifier

Mixture identification:

Trade name:

BENEFIX®

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

Recommended use:

Mixtures/Substance for the industrial and/or professional finishing for leather and shoes.

Uses advised against:

Stick to the recommended use.

1.3. Details of the supplier of the safety data sheet

Supplier:

FENICE S.p.A. - V. del Lavoro,1 - 36078 Valdagno (VI) Italy

FENICE S.p.A. - Tel. +39.0445.424.888

Competent person responsible for the safety data sheet:

ufficio.sicurezza@fenice.com

1.4. Emergency telephone number

FENICE S.p.A. - Tel. +39.0445.424.888 (8:00-12:00; 14:00-17:30)

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.

EUH208 Contains reaction mass of isothiazolinones. May produce an allergic reaction.

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 >= 0.1%

Other Hazards:

No other hazards.

SECTION 3: Composition/information on ingredients

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3.1. Substances

Not available

3.2. Mixtures

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

Qty	Name	Ident. Number		Classification
14 ppm	reaction mass of	Index number:	613-167-00-5	♦ 3.1/2/Inhal Acute Tox. 2 H330
	isothiazolinones	CAS:	55965-84-9	♦ 3.1/2/Dermal Acute Tox. 2 H310
		EC:	611-341-5	♦ 3.1/3/Oral Acute Tox. 3 H301
				♦ 3.2/1C Skin Corr. 1C H314
				🧇 3.3/1 Eye Dam. 1 H318
				😲 3.4.2/1A Skin Sens. 1A H317
				4.1/A1 Aquatic Acute 1 H400
				M=100.
				4.1/C1 Aquatic Chronic 1 H410
				M=100. EUH071
				Specific Concentration Limits:
				C >= 0,6%: Skin Corr. 1C H314
				0,06% <= C < 0.6%: Skin Irrit. 2 H315
				C >= 0,6%: Eye Dam. 1 H318
				0,06% <= C < 0.6%: Eye Irrit. 2 H319 C >= 0,0015%: Skin Sens. 1A H317

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash the affected parts 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.

In case of respiratory problems, medical care is needed.

- 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:

CO2, foam, dry extinguishers, nebulised water.

Extinguishing media which must not be used for safety reasons:

Do not use jets of water as it can cause the spread of fire.

Water can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

IN THE EVENT OF FIRE

Do not inhale combustion gases.

Burning produces heavy smoke.

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5.3. Advice for firefighters

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.

EQUIPMENT

Fire fighting clothing i. e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure air breathing apparatus (BN EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

Suitable material for taking up: inert absorbing material.

6.3. Methods and material for containment and cleaning up

Stop the leak or spill and use inert absorbent material to surround the contaminated area. Collect and dispose in line with current laws and norms. Do not pour into drains.

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.

Avoid contemporary handling of any incompatible materials (see section 10).

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

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working. Do not smoke.

Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place at a temperture between +5/40°C.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular, except those listed in paragraph 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

reaction mass of isothiazolinones - CAS: 55965-84-9

Worker Industry: 0.02 mg/m^3 - Consumer: 0.02 mg/m^3 - Exposure: Human Inhalation - Frequency:

Long Term, local effects

Worker Industry: 0.04 mg/m³ - Consumer: 0.04 mg/m³ - Exposure: Human Inhalation - Frequency:

Short Term (acute)

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Consumer: 0.09 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 0.11 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

PNEC Exposure Limit Values

reaction mass of isothiazolinones - CAS: 55965-84-9

Target: Fresh Water - Value: $3.39 \mu g/l$ Target: Marine water - Value: $3.39 \mu g/l$

Target: Microorganisms in sewage treatments - Value: 0.23 µg/l

Target: Freshwater sediments - Value: 0.027 mg/kg Target: Marine water sediments - Value: 0.027 mg/kg

Target: Soil (agricultural) - Value: 0.01 mg/kg

8.2. Exposure controls

Good ventilation is generally sufficient for most operations.

In case of insufficient ventilation use a localized aspiration system.

Personal protective equipment, if adopetd, must be CE marked, showing that it complies with applicable standards.

Adopt good working practices. Avoid prolonged or unnecessary contact with the products.

Individual protection measures

Use in well-ventilated areas. Do not get in eyes and on skin. Follow all reasonable precautionary measures when handling chemicals.

Adopt a correct personal hygiene. Do not consume or store food in the work areas.

Wash hands before smoking or eating.

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves (EN 374)

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	Reg (EC) no. 1272/2008, Annex I, section 1.0	
Colour:	whitish		
Odour:	light		
Melting point/freezing point:	0 °C	Expert judgement	
Boiling point or initial boiling point and boiling range:	100 °C	Expert judgement	
Flammability:	non-flammable	Expert judgement	
Lower and upper explosion limit:	Not Relevant*		
Flash point:	>100 °C	Expert judgement	
Auto-ignition temperature:	Not Relevant*		
Decomposition temperature:	Not Relevant*		
pH:	7 +/- 1 (1:10)	UNI EN 1245:2011	
Kinematic viscosity:	Not available		

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Solubility in water:	miscible	(1:10) water	
	not miscible in organic solvents	Expert judgement	
Partition coefficient n-octanol/water (log value):	Not Relevant*		
Vapour pressure:	Not Relevant*		
Density and/or relative density:	1.02 +/- 0.05 g/cm3	UNI EN ISO 2811-1	
Relative vapour density:	Not Relevant*		

Particle characteristics:

Particle size (average and range)	Not Relevant*	

9.2. Other information

No other relevant information

*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition.

VOC total content: --%

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 in particular in the normal conditions of use.

10.4. Conditions to avoid

The product is stable under normal storage/use conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

May produce toxic and noxious fumes in case of fire.

SECTION 11: Toxicological information

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

In the absence of experimental data for the product itself, health hazards are evalueted according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

Toxicological information of the product:

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

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Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Further information

The product may cause allergic reactions in sensitive persons.

Toxicological information of the main substances found in the product:

Not available

Further information

No one in particular.

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

Not classified for environmental hazards

Based on available data, the classification criteria are not met

12.2. Persistence and degradability

None

Not available

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In

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so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

This material is NOT RESTRICTED for transportation (ADR/RID, IMDG, IATA, ICAO).

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

Not available

14.6. Special precautions for user

Not available

14.7. Maritime transport in bulk according to IMO instruments

No

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)

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 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

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15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Based on information we have, a Chemical Safety Assessment, if expected, has been carried out for the substances in the mixture by the manufacturer or the importer.

SECTION 16: Other information

Text of phrases referred to under heading 3:

H330 Fatal if inhaled.

H310 Fatal in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Hazard class and hazard category	Code	Description
Acute Tox. 2	3.1/2/Dermal	Acute toxicity (dermal), Category 2
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

This document was prepared by a competent person who has received appropriate training.

Further information

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

The information given is based on our present knowledge, at the time of sending the data sheet and only serves for describing the product for security reasons, without guaranteeing specific properties.

Due to the various uses of our product and for factors not dependent on us, no responsibility is accepted for the use of this information.

Please keep your records up to date and make this sheet available to all relevant personnel. This safety sheet cancels and substitutes any other previous issue.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

ECHA database on registered substances (http://apps.echa.europa.eu/registered/registered-sub.aspx)

ECHA Classification and Labelling Inventory (http://echa.europa.eu/clp/c l inventory en.asp)

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GESTIS hazardous substances database of German Berufsgenossenschaften (http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index-2.jsp)

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.

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