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	Issue date: 28-08-2017
HENDI Fuel for Fondue-burners UN 1325	Revision date: 22-11-2022
	According: Regulation (EC) 1907/2006

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : Hendi fuel for fondue-burners
 Synonyms : Art. 190036 3x cartouche 80gr

Unique formula identifier (UFI) : E810-X01F-F00D-YTE5

1.2 Relevant identified uses and uses advised against

Relevant identified uses : Fuel only for professional use in fondue-burners.
 Uses advised against : This product should not be used, without asking advice from the supplier, for other applications than identified above.

1.3 Details of the supplier of the safety data sheet

Supplier : Hendi BV, Innovatielaan 6, 6745 XW De Klomp, The Netherlands
 tel: +31 (0)317 681040
 info@hendi.eu
 www.hendi.eu

1.4 Emergency telephone number : Hendi: +31 (0)317 681040 (CET 9:00 – 17:00)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

EC Index number : 200-578-6
 CLP Regulation (EC 1272/2008) : Flam. Sol.1 (H228) & Eye Irrit. 2 (H319)
 Flammable solid.
 Causes serious eye irritation.

2.2 Label elements

CLP Regulation (EC 1272/2008)
 Pictogram(s) : GHS02 & GHS07



Signal word : Danger

Hazard statement(s) : H228 Flammable solid.
 H319 Causes serious eye irritation.

Precautionary statement(s) : P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P403+233 Store in a well ventilated place. Keep container tightly closed.
 P235 Keep cool.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

: Use only with fuel tin holder.
 Remove foil before use.
 Do not move if ignited.

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Use only under supervision and on a heat resistant surface.
 If fuel for fondue-burners is used carefully there are no direct other hazards.

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain components with endocrine disrupting properties.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: not relevant

3.2 Mixture: with a cellulose-derivative jelled denatured ethanol, solid

Chemical name	CAS nr EC nr	Index number	Registration number	%	Hazard statements (CLP EC 1272/2008)
Ethanol	64-17-5 200-578-6	603-002-00-5	01-2119457610-43-XXX	50-80	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319)
Methanol	67-56-1 200-659-6	603-001-00-X	01-2119433307-44-XXX	<3	Flam. Liq. 2 (H225), Acute Tox. 3 (H331), Acute Tox. 3 (H311), Acute Tox. 3 (H301), STOT SE 1 (H370)
Butanon	78-93-3 201-159-0	606-002-00-3	01-2119457290-43-XXX	<2	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336), (EUH066)
Propan-2-ol	67-63-0 200-661-7	603-117-00-0	-	<1	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336)
Denatonium benzoate (Bitrex)	3734-33-6 223-095-2	-	-	<0,01	Acute Tox. 4 (H302), Skin Irrit. 2 (H315), Eye Dam. 1 (H318), Acute Tox. 2 (H330)

The full text of each relevant hazard statement is listed in Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- | | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | : When any doubt always seek medical attention. |
| Inhalation | : Consult a doctor if disturbing symptoms appear. Remove to fresh air. Keep the victim warm and calm. |
| Contact with skin | : Remove contaminated clothing and thoroughly wash skin with water and soap. Consult a doctor if disturbing symptoms appear. |
| Contact with eyes | : Protect non-irritated eye and if possible remove contact lenses. Wash out with plenty of water for several minutes. Avoid powerful water stream, risk of cornea damage. Consult an ophthalmologist if disturbing symptoms appear. |
| Ingestion | : Ingestion almost impossible because of the presence of the component Bitrex. Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor and show the container or label. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | : In case of high concentration of vapours, product can cause pain, dizziness, coordination disorders. Similar symptoms as after ingestion. |
| Contact with skin | : In case of frequent or long exposure product can cause: redness, drying, cracking of the skin. |
| Contact with eyes | : Possible redness, tearing, burning, pain. |

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Ingestion : Possible nausea, vomiting, headaches, dizziness, coordination and balance disorders, drowsiness.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.
Symptomatic treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Fire-extinguishing powder, CO₂, water spray, alcohol-resistant foam.
 Unsuitable extinguishing media : Water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

: During the fire, the product may produce hazardous fumes containing carbon oxides. Do not inhale combustion products, they can be dangerous for human health

5.3 Advice for firefighters

: Highly flammable liquid and vapours. Product's vapours can create explosive mixtures with air. Product vapours are heavier than air and accumulate in the lower parts of the premises. Cool down containers at a safe distance with water spray to prevent bursting. Use personal protection typical in case of fire. Self-contained breathing apparatus and protective clothing should be worn in the fire zone and also when cleaning immediately after a fire in a closed or poorly ventilated area.

SECTION 6. ACCIDENTAL RELEASE MEASURES OF THE SUBSTANCE OR MIXTURE

6.1 Personal precautions, protective equipment & emergency procedures:

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that removing the problem and its results is conducted by a trained personnel only. In case of large spills, isolate the exposed area. Avoid contact with skin and eyes. Remove all sources of fire and heat. Announce a prohibition of smoking. Warning! There is a risk of slipping on spilled product.

6.2 Environmental precautions

: In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services

6.3 Methods and material for containment and cleaning up

: Collect with incombustible, liquid-binding material (e.g. sand, soil, universal binding agent, silica, etc.) and place it in labelled containers. Collected material treat as waste. Clean the contaminated place. Apply adequate ventilation and use sparkle- and explosion safe tools.

6.4 Reference to other sections

: For personal protection - section 8. Disposal - section 13

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Before break and after work carefully wash hands. Keep containers tightly closed after use. Use as intended. Keep in well-ventilated place. Keep away from the heat and fire sources. Take precautionary measures against static discharge. Do not smoke.

7.2 Conditions for safe storage including any incompatibilities:

Keep only in fire- and explosion-safe, dry, cool places with good ventilation and in tightly closed packing. Keep away from food, beverages or animal food. Keep away from heat and

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direct sunlight. Keep away from fire. Storage apart from oxidizing substances. Keep container tightly closed.

7.3 Specific end use(s) : Fuel only for professional use in fondue-burners.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Specification	TWA 8 hour	STEL 15 min
Methanol (CAS 67-56-1)	260 mg/m ³	-
Butanon (CAS 78-93-3)	600 mg/m ³	900 mg/m ³

The table above shows the maximum workplace concentration values on the Community level. Please check any national occupational exposure limit values in your country.

Occupational exposure limit values:

Ethanol (CAS 64-17-5)

Netherlands:	260 mg/m ³ / TGG 8h - 1900 mg/m ³ / TGG 15min
Germany:	200 ppm / TGG 8h - 380 mg/m ³ / TGG 8h - 800 ppm / TGG 15min - 1520 mg/m ³ / TGG 15min
United Kingdom:	1000 ppm / TGG 8h - 1920 mg/m ³ / TGG 8h
Austria:	1000 ppm / TGG 8h - 1900 mg/m ³ / TGG 8h - 2000 ppm / TGG 15min - 3800 mg/m ³ / TGG 15min
France:	1000 ppm / TGG 8h - 1900 mg/m ³ / TGG 8h - 5000 ppm / TGG 15min - 9500 mg/m ³ / TGG 15min
Denmark:	1000 ppm / TGG 8h - 1900 mg/m ³ / TGG 8h
Finland:	1000 ppm / TGG 8h - 1900 mg/m ³ / TGG 8h - 1300 ppm / TGG 15min - 2500 mg/m ³ / TGG 15min
Norway:	500 ppm / TGG 8h - 950 mg/m ³ / TGG 8h
Sweden:	500 ppm / TGG 8h - 1000 mg/m ³ / TGG 8h - 1000 ppm / TGG 15min - 1900 mg/m ³ / TGG 15min
Switzerland:	500 ppm / TGG 8h - 960 mg/m ³ / TGG 8h - 1000 ppm / TGG 15min - 1920 mg/m ³ / TGG 15min

Methanol (CAS 67-56-1)

Netherlands:	133 mg/m ³ / TGG 8h
Germany:	200 ppm / TGG 8h - 270 mg/m ³ / TGG 8h
United Kingdom:	200 ppm / TGG 8h - 266 mg/m ³ / TGG 8h - 250 ppm / TGG 15min - 333 mg/m ³ / TGG 15min
Austria:	200 ppm / TGG 8h - 260 mg/m ³ / TGG 8h - 800 ppm / TGG 15min - 1040 mg/m ³ / TGG 15min
France:	200 ppm / TGG 8h - 260 mg/m ³ / TGG 8h - 1000 ppm / TGG 15min - 1300 mg/m ³ / TGG 15min
Denmark:	200 ppm / TGG 8h - 260 mg/m ³ / TGG 8h
Finland:	200 ppm / TGG 8h - 270 mg/m ³ / TGG 8h - 250 ppm / TGG 15min - 330 mg/m ³ / TGG 15min
Norway:	100 ppm / TGG 8h - 130 mg/m ³ / TGG 8h
Sweden:	200 ppm / TGG 8h - 250 mg/m ³ / TGG 8h - 250 ppm / TGG 15min - 350 mg/m ³ / TGG 15min
Switzerland:	200 ppm / TGG 8h - 260 mg/m ³ / TGG 8h - 800 ppm / TGG 15min - 1040 mg/m ³ / TGG 15min

Butanon (CAS 78-93-3)

Netherlands:	590 mg/m ³ / TGG 8h - 900 mg/m ³ / TGG 15min
Germany:	200 ppm / TGG 8h - 600 mg/m ³ / TGG 8h - 200 ppm / TGG 15min - 600 mg/m ³ / TGG 15min

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United Kingdom:	200 ppm / TGG 8h - 600 mg/m ³ / TGG 8h - 300 ppm / TGG 15min - 899 mg/m ³ / TGG 15min
Austria:	100 ppm / TGG 8h - 295 mg/m ³ / TGG 8h - 200 ppm / TGG 30min - 590 mg/m ³ / TGG 30min
France:	200 ppm / TGG 8h - 600 mg/m ³ / TGG 8h - 300 ppm / TGG 15min - 900 mg/m ³ / TGG 15min
Denmark:	50 ppm / TGG 8h - 145 mg/m ³ / TGG 8h
Finland:	100 ppm / TGG 15min - 300 mg/m ³ / TGG 15min
Norway:	75 ppm / TGG 8h - 220 mg/m ³ / TGG 8h
Sweden:	50 ppm / TGG 8h - 150 mg/m ³ / TGG 8h - 300 ppm / TGG 15min - 900 mg/m ³ / TGG 15min
Switzerland:	200 ppm / TGG 8h - 590 mg/m ³ / TGG 8h - 200 ppm / TGG 15min - 590 mg/m ³ / TGG 15min

Recommended control procedures:

Procedures concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace should be applied – if they are available and justified for the position – in accordance with the current national and European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

Biological limits : not known

DNEL / PNEC values:

DNEL-values for ethanol

DNEL workers, inhalation, short-term, local: 1900 mg/m³
 DNEL workers, dermal, long-term, systemic: 343 mg/kg body weight
 DNEL workers, inhalation, long-term, systemic: 950 mg/m³
 DNEL consumer, inhalation, short-term, local: 950 mg/m³
 DNEL consumer, dermal, long-term, systemic: 206 mg/kg body weight
 DNEL consumer, inhalation, long-term, systemic: 114 mg/m³
 DNEL consumer, oral, long-term, systemic: 87 mg/kg body weight

PNEC-values for ethanol

PNEC fresh water: 0.96 mg/L
 PNEC marine water: 0.79 mg/L
 PNEC periodic release: 2.75 mg/L
 PNEC fresh water sediment: 3.6 mg/L
 PNEC marine water sediment: 2.9 mg/L
 PNEC soil: 0.63 mg/kg soil
 PNEC sewage treatment plant: 580 mg/L
 PNEC oral: 0.72 g/kg food

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

- Eye / face protection : Goggles. If used as intended, not applicable.
- Skin / hand protection : If used as intended, not applicable. After use, clean up spilled parts and clean hands immediately with water and soap. Do not use gloves because of the risk of remaining spilled parts on the gloves.
- Respiratory protection : Not required if there is an appropriate ventilation. At high concentrations of vapours or in case of sudden incidents, use half masks / masks with organic vapours absorber.
- Thermal hazards : Not applicable.
- Other : Work in accordance with the principles of safety and hygiene. During operation, do not eat, drink or smoke. Avoid contact with skin and eyes. Ensure good general and/or local ventilation at work stations to ensure the maintenance of concentrations of hazardous components in the atmosphere below the exposure limit values.

Personal protective equipment must meet requirements of Regulation 2016/425/EU. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

Personal protective equipment should be selected based to activities carried out, the associated risks must be approved by a specialist before handling the product.

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Environmental exposure controls : Avoid release of large amounts to surface water, drainage system or soil.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state	: solid/gel
b) Colour	: green
c) Odour	: characteristic
d) Melting point / freezing point	: -70°C
e) Boiling point or initial boiling point and boiling range	: 78°C
f) Flammability	: flammable solid
g) Lower and upper explosion limit	: 15% vol. / 3,5% vol. (ethanol)
h) Flash point	: not determined
i) Auto-ignition temperature	: 425°C (ethanol)
j) Decomposition temperature	: not determined
k) pH	: not determined
l) Kinematic viscosity	: not determined
m) Solubility	: soluble in water
n) (log value)	: not determined
o) Vapour pressure	: 5,9 kPa (20°C)
p) Density and/or relative density	: 860 kg/m ³ (20°)
q) Relative vapour density	: not determined
r) Particle characteristics	: not determined

9.2 Other information	: Information on physical hazard class: not known Other safety features: not known
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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: Product is reactive, will not undergo dangerous polymerization. See section 10.3-10.5
10.2 Chemical stability	: The product is stable under normal conditions.
10.3 Possibility of hazardous reactions	: Hydrogen may be formed in reaction with light metals.
10.4 Conditions to avoid	: Avoid direct sunlight, fire and heat sources.
10.5 Incompatible materials	: Strong oxidants, light metals.
10.6 Hazardous decomposition products:	Not known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in CLP Regulation (EC 1272/2008)

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

a) Acute toxicity	: LD ₅₀ (rat, oral): 7 000 mg/kg LD ₅₀ (rabbit, skin): 13 153 mg/kg LCL ₀ (rat, inhalation): 12 200 mg/l/4h Based on available data, the classification criteria are not met.
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| b) Skin corrosion/irritation | : Based on available data, the classification criteria are not met. |
| c) Eye damage/ irritation | : Causes serious eye irritation. |
| d) Respiratory or skin sensitization | : Based on available data, the classification criteria are not met. |
| e) Germ cell mutagenicity | : Based on available data, the classification criteria are not met. |
| f) Carcinogenicity | : Based on available data, the classification criteria are not met. |
| g) Reproductive toxicity | : Based on available data, the classification criteria are not met. |
| h) STOT- single exposure | : Based on available data, the classification criteria are not met. |
| i) STOT- repeated exposure | : Based on available data, the classification criteria are not met. |
| j) Aspiration hazard | : Based on available data, the classification criteria are not met. |

- 11.2 Other information** : Endocrine disrupting properties: Not applicable.
 Other information: Not applicable.

SECTION 12. ECOLOGICAL INFORMATION

- | | |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.1 Toxicity | : Acute Toxicity: No data leading to classification as acutely toxic to the environment.
Chronic Toxicity: No data leading to classification as chronically toxic to the environment.
Other toxicity: Not applicable |
| 12.2 Persistence and degradability | : Product is easily biodegradable. |
| 12.3 Bio accumulative potential | : Components of the product are not bioaccumulative. |
| 12.4 Mobility in soil | : Product mixes with water and spreads in the aquatic environment. |
| 12.5 Results of PBT & vPvB assessment: | : Substances contained in the product are not classified as PBT or vPvB. |
| 12.6 Endocrine disrupting properties | : The product does not contain components with endocrine disrupting properties. |
| 12.7 Other adverse effects | : The product does not affect global warming and ozone layer depletion.
Consider other harmful effects of individual components of the mixture on the environment (e.g. global warming potential). |

SECTION 13. DISPOSAL CONSIDERATIONS

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|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1 Waste treatment methods | : <u>For the product</u> : the waste should be disposed in authorized incinerations or waste treatment/ disposal plant, in accordance with the local legislation. Residues store in original containers. Waste code should be given in the manufacturing place.
<u>For used packaging</u> : reuse, recycling, liquidation of empty containers dispose in accordance with the local legislation. Only containers completely emptied can be recycled. |
| 13.2 Other information | : Take note of framework waste Directive (2008/98/EC) and Directive on packaging and packaging waste (94/62/EC) |

SECTION 14. TRANSPORT INFORMATION



- 14.1 UN Number:**
 ADR/RID/ADN/IMDG/ICAO/IATA
 UN 1325

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14.2 UN proper shipping name:

ADR/RID/ADN/IMDG/ICAO/IATA
 FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)

14.3 Transport hazard class(es):

4.1

14.4 Packing group:

II

14.5 Environmental hazards:

According to transport regulations, product is not dangerous for the environment.

14.6 Special precautions for user:

Other information ADR:

Limited quantity 1 kg

Tunnel restriction code: (E)

Shippers of dangerous goods shall prior to the transport, inform the carrier provably the total gross mass of such goods. You should take into account the applicable ADR regulations, transport dangerous goods by road.

14.7 Maritime transport in bulk in accordance with IMO instruments:

Not applicable.

SECTION 15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation (EC)

REACH (EC 1907/2006)

- a) Substance of potential concern (Art.59) : Components are not included as substance of potential concern.
- b) Authorisation (Title VII) : Components are not included on authorisation list.
- c) Restrictions (Title VIII) : Components are not included on list of restrictions.

Other legislation: Regulation (EU) 2019/1148:

Annex I Restricted explosives precursors: None of the ingredients are listed.

Annex II Reportable explosives precursors: None of the ingredients are listed.

National laws: Ensure compliance with relevant national legal obligations.

15.2 Chemical safety assessment : It is not necessary to carry out a chemical safety assessment for the mixture.

SECTION 16. OTHER INFORMATION
16.1 Revision comments

A vertical line in the left margin indicates that there is a relevant amendment from the previous version.

16.2 Abbreviations and acronyms used in the safety data sheet

Hazard statements (Section 3) : H225 = Highly flammable liquid and vapour.
 H301 = Toxic if swallowed.
 H302 = Harmful if swallowed.
 H311 = Toxic in contact with skin.
 H315 = Causes skin irritation.
 H318 = Causes serious eye damage.
 H319 = Causes serious eye irritation.
 H330 = Fatal if inhaled.
 H331 = Toxic if inhaled.
 H336 = May cause drowsiness or dizziness
 H370 = Causes damage to organs.
 EUH066 = Repeated exposure may cause skin dryness or cracking.

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Abbreviations and acronyms:

TWA	Time-weighted average
STEL	Short-term exposure limit
PBT	Persistent, Bioaccumulative and Toxic Substances
vPvB	very Persistent and very Bioaccumulative Substances
Eye Irrit. 2	Serious eye damage/eye irritation, category 2
Flam. Liq. 2	Flammable Liquid cat. 2
Acute Tox. 3,4	Acute Toxicity cat. 3
STOT SE 1, 3	Specific target organ toxicity - single exposure cat. 1, 3
Eye Dam. 1	Serious eye damage/eye irritation, category 1
Skin Irrit. 2	Skin corrosion/irritation, category 2

Transport information (Section 14) : ADN = European Agreement concerning the international carriage of dangerous goods by inland waterways.
 ADR = European Agreement concerning the international carriage of dangerous goods by road.
 IATA = International Air Transport Association.
 ICAO = International Civil Aviation Organization.
 IMDG = International Transport of Dangerous Goods by sea
 RID = International Regulations governing the carriage of dangerous goods by rail.

16.3 References and sources for data : Safety data sheet manufacturer
 ECHA dissemination database
 SER limits database

16.4 Training advice:

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

16.5 Other information and disclaimer

Traceability of the product by means of the production date which is indicated on the product.

The content and format of this safety data sheet is in accordance with amendment of Regulation (EC) 1907/2006 via (EU) 2020/878

All information given in this Safety Data Sheet is exclusively related to the product described and is provided assuming that the product will be used in a way and for the purposes as stated by the manufacturer. The information is based on our present state of knowledge and will be reviewed regularly. This Safety Data Sheet has only been set up with the intention to describe the safety aspects of the product and therefore should not be construed as guaranteeing specific properties of the product of concern or its suitability for a particular application. It is the user's own responsibility to take the precautionary measures described and also to take care that this information is complete and adequate for the use of this product. It is recommended to pass through the information in this Safety Data Sheet, whenever necessary in an adapted form, to all staff and interested parties of concern.

Changes, printing and typesetting errors reserved