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

1.1 Product identifier

Trade name: **ASNARE UFA**

Unique Formula Identifier (UFI): 0300-F0M1-200A-G21R

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

Relevant identified uses: glue for filament in 3D print.

Uses advised against: all others not mentioned above.

1.3 Details of the supplier of the safety data sheet

PM4SOLUTIONS Sp. z o.o.

Al. Kalifornijska 1

55-020 Rzeplin, POLAND

Tel.: +48 504987368

e-mail address of the person responsible for the SDS: office@pm4sol.com

1.4 Emergency telephone number

112 (European emergency call)

999 (national emergency response service in the UK)


Section 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Hazard Category 2; H225

Serious eye damage/eye irritation, Hazard Category 2; H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

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2.2 Label elements

Hazard pictogram(s):



Signal word: DANGER

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements:

P102 Keep out of reach of children.

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

P403+P235 Store in a well-ventilated place. 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.

P501 Dispose of contents/container to in accordance with national regulation.


Supplemental Hazard Information: not applicable.

Mixture contains: not applicable.

Unique Formula Identifier (UFI): 0300-F0M1-200A-G21R

2.3 Other hazards

Mixture does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended or substances with endocrine-disrupting properties entered in the list established in accordance with Art. 59 section 1 in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1%. Vapors in high concentration and in confined spaces may form explosive mixtures with air. Prevent from ignition sources. Take precautionary measures against mechanical sparks and static discharges.


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Section 3: Composition/information on ingredients

3.1 Substances – not applicable.

3.2. Mixtures

Name	Identifying numbers	Classification according to regulation (EC) no 1272/2008	Concentration, %
Ethanol ¹	CAS no: 64-17-5 EC no: 200-578-6 Index no: 603-002-00-5 REACH registration no: 01-2119457610-43-XXXX	Flammable liquids, Hazard Category 2; H225 Serious eye damage/eye irritation, Hazard Category 2; H319	70 - 80
Propan-2-ol ¹	CAS no: 67-63-0 EC no: 200-661-7 Index no: 603-117-00-0 REACH registration no: 01-2119457558-25-XXXX	Flammable liquids, Hazard Category 2; H225 Serious eye damage/eye irritation, Hazard Category 2; H319 Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; H336	10 - 16
n-butyl acetate ¹	CAS no: 123-86-4 EC no: 204-658-1 Index no: 607-025-00-1 REACH registration no: 01-2119485493-29-XXXX	Flammable liquids, Hazard Category 3; H226 Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; H336	1 – 2.5
butanone; ethyl methyl ketone ¹	CAS no: 78-93-3 EC no: 201-159-0 Index no: 606-002-00-3 REACH registration no: 01-2119457290-43-XXXX	Flammable liquids, Hazard Category 2; H225 Serious eye damage/eye irritation, Hazard Category 2; H319 Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; H336	0 – 0.8

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¹ Substances for which there are workplace exposure limits, see section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

Ingestion: wash mouth with copious amounts of water. Do not give anything by mouth until consulting a physician. Get medical advice/attention if you feel unwell.

Eye contact: remove contact lenses, if present and easy to do. Wash with copious amounts of water. Continue rinsing for at least 15 minutes. Avoid a strong stream of water due to the risk of cornea damage. If symptoms persist, call a physician.

Skin contact: wash with copious amounts of water. Continue rinsing for at least 15 minutes. If symptoms persist, call a physician.

Inhalation: move of the exposed individual from the area to fresh air, place in the recovery position, get medical assistance. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Acute effects of exposure: after ingestion or as a result of inhalation, symptoms similar to alcohol intoxication occur. The symptoms include sensitivity to light, conjunctivitis, visual disturbances, loss of consciousness, movement coordination disorders, dizziness, nausea, disorientation. If in contact with eye causes irritation, pain, redness and tearing.


Repeated or prolonged exposure effects: no known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media: water spray, carbon dioxide, dry chemical, foam. Adjust accordingly to the surroundings.

Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture

May produce toxic fumes on combustion. Highly flammable liquid and vapour. A single unit package does not pose an explosion hazard. In the case of large quantities of the product that can form an explosive atmosphere: vapors in high concentration and in confined spaces may form explosive mixtures with air. Warning: vapors may travel from a leaking container to a source of ignition causing a flame to flashback to the container.

5.3 Advice for the firefighters

Keep containers cool with water spray or remove container from danger zone. Use special protective equipment for firefighters.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: evacuate personnel to safety area. Restrict access by unauthorized persons.

For emergency responders: no specific, in case of large quantities, use protective clothing cat. III made of polyethylene, protective goggles and mask/half-mask with type A gas filter. Ventilate the room.

6.2 Environmental precautions

Keep away from drains, surface and ground water.


6.3 Methods and material for containment and cleaning up

Prevent from further leakage. Cover drains to contain a spill. Absorb small and large quantities of released substance. Dispose into waste container as hazardous with appropriate described code to licensed waste contractor. Clean area where the spill occurred.

6.4 Reference to other sections

For personal protective equipment, see Section 8.

Disposal considerations, see Section 13.

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Section 7: Handling and storage

7.1 Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with eyes. Ensure adequate ventilation when vapours occur. Do not use in confined spaces without adequate ventilation. Highly flammable liquid and vapour. Vapors may form explosive mixtures with air. Keep away from ignition sources such as heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against mechanical sparks and static discharges. A single unit package does not pose an explosion hazard. Warning: vapors may travel from a leaking container to a source of ignition causing a flame to flashback to the container.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed labeled container. Recommended storage temperature < 35 °C.

7.3 Specific end use(s)

See section 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ethanol, CAS no: 64-17-5

Long-term exposure limit (8-hr TWA reference period) = 1920 mg/m³,


Short-term exposure limit (15-minute reference period) = -.

Propan-2-ol, CAS no: 67-63-0

Long-term exposure limit (8-hr TWA reference period) = 999 mg/m³,

Short-term exposure limit (15-minute reference period) = 1250 mg/m³.

Butyl acetate, CAS no: 123-86-4

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Long-term exposure limit (8-hr TWA reference period) = 724 mg/m³,
 Short-term exposure limit (15-minute reference period) = 966 mg/m³.

Butan-2-one, (methyl ethyl ketone), CAS no: 78-93-3

Long-term exposure limit (8-hr TWA reference period) = 600 mg/m³,
 Short-term exposure limit (15-minute reference period) = 899 mg/m³.

Biological monitoring guidance values: 70 µmol butan-2-one/L in urine. Sampling time: post shift.

Union workplace exposure limits:

Long-term exposure limit (8-hr TWA reference period) = 600 mg/m³,
 Short-term exposure limit (15-minute reference period) = 900 mg/m³.

EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005, ISBN 9780717667031.

COMMISSION DIRECTIVE 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

COMMISSION DIRECTIVE 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.


COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Recommended monitoring procedures:

Standard EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours.

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography.

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MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gaschromatography.

DNEL, PNEC

Ethanol, CAS no: 64-17-5

DNEL

workers, inhalation exposure, long-term, systemic effects, carcinogenicity = 380 mg/m³

workers, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 1900 mg/m³

workers, dermal exposure, long-term, systemic effects, repeated dose toxicity = 343 mg/kg/day

general population, inhalation exposure, long-term, systemic effects, carcinogenicity = 114 mg/m³

general population, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 950 mg/m³

general population, dermal exposure, long-term, systemic effects, repeated dose toxicity = 206 mg/kg/day

general population, oral exposure, long-term, systemic effects, repeated dose toxicity = 87 mg/kg/day

PNEC

freshwater = 0.96 mg/l

marine water = 0.79 mg/l

sewage treatment plant = 580 mg/l

sediment (freshwater) = 3.6 mg/kg

sediment (marine water) = 2.9 mg/kg

soil = 0.63 mg/kg

Propan-2-ol, CAS no: 67-63-0

DNEL

workers, inhalation exposure, long-term, systemic effects = 500 mg/m³

workers, inhalation exposure, short-term, systemic effects = 1000 mg/m³

workers, dermal exposure, long-term, systemic effects = 888 mg/kg/day

general population, inhalation exposure, long-term, systemic effects = 89 mg/m³


general population, inhalation exposure, short-term, systemic effects = 178 mg/m³

general population, dermal exposure, long-term, systemic effects = 319 mg/kg/day

general population, oral exposure, long-term, systemic effects = 26 mg/kg/day

general population, oral exposure, skort-term, systemic effects = 51 mg/kg/day

PNEC

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Butyl acetate, CAS no: 123-86-4

DNEL

workers, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 48 mg/m³
workers, inhalation exposure, short-term, systemic effects, irritation (respiratory tract) = 600 mg/m³
workers, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 300 mg/m³
workers, inhalation exposure, short-term, local effects, irritation (respiratory tract) = 600 mg/m³
workers, dermal exposure, long-term, systemic effects, repeated dose toxicity = 7 mg/kg/day
workers, dermal exposure, short-term, systemic effects, repeated dose toxicity, neurotoxicity = 11 mg/kg/day
general population, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 12 mg/m³
general population, inhalation exposure, long-term, systemic effects, irritation (respiratory tract) = 300 mg/m³
general population, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 35.7 mg/m³
general population, inhalation exposure, short-term, local effects, irritation (respiratory tract) = 300 mg/m³
general population, dermal exposure, long-term, systemic effects, repeated dose toxicity = 3.4 mg/kg/day
general population, dermal exposure, short-term, systemic effects, repeated dose toxicity, neurotoxicity = 6 mg/kg/day
general population, oral exposure, long-term, systemic effects, repeated dose toxicity, neurotoxicity = 2 mg/kg/day
general population, oral exposure, short-term, systemic effects, repeated dose toxicity, neurotoxicity = 2 mg/kg/day


PNEC

w freshwater = 180 µg/l
marine water = 18 µg/l
sewage treatment plant = 35.6 mg/l
sediment (freshwater) = 981 µg/kg
sediment (marine water) = 98.1 µg/kg
soil = 90.3 µg/kg

Butan-2-one, (methyl ethyl ketone), CAS no: 78-93-3

DNEL

workers, inhalation exposure, long-term, systemic effects, neurotoxicity = 600 mg/m³
workers, inhalation exposure, short-term, systemic effects = 900 mg/m³
workers, dermal exposure, long-term, systemic effects, neurotoxicity = 1161 mg/kg/day
general population, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 106 mg/m³
general population, inhalation exposure, short-term, systemic effects, repeated dose toxicity = 450 mg/m³

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general population, dermal exposure, long-term, systemic effects, repeated dose toxicity = 412 mg/kg/day

general population, oral exposure, long-term, systemic effects, repeated dose toxicity = 31 mg/kg/day

PNEC

-

Source: European Chemicals Agency, <http://echa.europa.eu/>

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation at the workplace. Do not use in confined spaces without adequate ventilation. If during work processes there is a danger of clothing on the employee being ignited - consider emergency showers (safety showers) for washing the whole body and separate showers (showers) for washing the eyes should be installed.

8.2.2. Individual protection measures, such as personal protective equipment

a) Eye/face protection: not required. If needed use goggles, EN166 Personal eye protection - specifications.

b) Skin protection


Hand protection: gloves, standard EN374 Protective gloves against dangerous chemicals and micro-organisms,

Material: nitrile

Category: III

Thickness: > 0.1 mm

Other: for small quantities the protection is not necessary. If exposure to body parts is possible and prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended of category III, type 3 or 4 or 6. EN 14605 - Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]).

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c) Respiratory protection: not required. In case of exposure to large amounts of liquids and vapors and in the absence of ventilation, use a half-mask/full mask respirator type A with Standard: EN14387 - Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking.

d) Thermal hazards: not applicable.

8.3 Environmental exposure controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. Keep away from drains, surface and ground water.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: colorless

Odour: alcohol-like

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: not determined

Flammability: not ignitable

Lower and upper explosion limit: not applicable

Flash point: < 23 °C

Auto-ignition temperature: not determined


Decomposition temperature: not determined

pH: ca. 6

Kinematic viscosity: not determined

Solubility: soluble in water

Partition coefficient n-octanol/water (log value): not applicable

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Vapour pressure: not determined

Density and/or relative density: not determined

Relative vapour density: not determined

Particle characteristics: not applicable

9.2 Other information

None.

Section 10: Stability and reactivity

10.1 Reactivity

Mixture is stable under normal conditions of use.

10.2 Chemical stability

Mixture is stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Do not occur under normal conditions. Vapors may form explosive mixtures with air. Keep away from ignition sources such as heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against mechanical sparks and static discharges. A single unit package does not pose an explosion hazard. Warning: vapors may travel from a leaking container to a source of ignition causing a flame to flashback to the container.

10.4 Conditions to avoid


Ignition sources for example open flames, heat, sparks, and sunlight.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous decomposition products

May produce toxic fumes on combustion.

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Section 11: Toxicological information

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

a) Acute toxicity

ATEmix, inhalation exposure = mixture does not contain substances classified in this hazard class and exposure route. Based on available data, the classification criteria are not met.

ATEmix, dermal exposure = mixture does not contain substances classified in this hazard class and exposure route. Based on available data, the classification criteria are not met.

ATEmix, oral exposure = mixture does not contain substances classified in this hazard class and exposure route. Based on available data, the classification criteria are not met.

Ethanol, CAS no: 64-17-5

LD50, rat, ingestion = 3450 mg/kg

LC50, rat, inhalation, 4h > 20 mg/l

Propan-2-ol, CAS no: 67-63-0

LD50, rat, ingestion > 2000 mg/kg

LC50, rat, inhalation = no data available

LD50, rat, skin > 2000 mg/kg

Butyl acetate, CAS no: 123-86-4

LD50, rat, ingestion = 14000 mg/kg


LC50, rat, inhalation, 4h = 9660 mg/m³

LD50, rabbit, skin > 5000 mg/kg

b) Skin corrosion/irritation

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

c) Serious eye damage/irritation

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Causes serious eye irritation. The mixture contain substances classified in this hazard class above the general concentration limit.

d) Respiratory or skin sensitization

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

e) Germ cell mutagenicity

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

f) Carcinogenicity

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

g) Reproductive toxicity

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

h) Specific target organ toxicity-single exposure

The mixture contain substances classified in this hazard class below the general concentration limit. Based on available data, the classification criteria are not met.

i) Specific target organ toxicity-repeated exposure


The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

j) Aspiration hazard

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Inhalation, ingestion, eye and skin contact.

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Symptoms related to the physical, chemical and toxicological characteristics. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute effects of exposure: after ingestion or as a result of inhalation, symptoms similar to alcohol intoxication occur. The symptoms include sensitivity to light, conjunctivitis, visual disturbances, loss of consciousness, movement coordination disorders, dizziness, nausea, disorientation. If in contact with eye causes irritation, pain, redness and tearing.

Repeated or prolonged exposure effects: no known.

11.2 Information on other hazards

Mixture does not contain any substances with endocrine-disrupting properties entered in the list established in accordance with Art. 59 section 1 in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1%.

Section 12: Ecological information

12.1 Toxicity

The mixture does not contain substances classified in this hazard class. Based on available data, the classification criteria are not met.

Ethanol, CAS no: 64-17-5

LC50 Salmo gairdneri, fish, 96h = 1300 mg/l

LC50, Gobio gobio, fish, 96h = 7000-9000 mg/l

EC50, Daphnia magna, crustaceans = 7800 mg/l

Propan-2-ol, CAS no: 67-63-0


LC50, leuciscus idus melanotus, ryby, 48h >100 mg/l.

EC50, daphnia magna, crustaceans, 48h > 100 mg/l

EC50, desmodesmus subspicatus, algae, 72h > 100 mg/l

Source: European Chemicals Agency, <http://echa.europa.eu/>

12.2 Persistence and degradability

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No data available for the mixture.

Ethanol, CAS no: 64-17-5: the substance is readily biodegradable.

Propan-2-ol, CAS no: 67-63-0: the substance is readily biodegradable.

Butyl acetate, CAS no: 123-86-4: the substance is readily biodegradable.

12.3 Bioaccumulative potential

No data available for the mixture.

Ethanol, CAS no: 64-17-5: does not significantly accumulate in organisms.

Propan-2-ol, CAS no: 67-63-0: does not significantly accumulate in organisms.

Butyl acetate, CAS no: 123-86-4: does not significantly accumulate in organisms.

12.4 Mobility in soil

No data available for the mixture. The liquid evaporates easily, dissolves in water. May penetrate into groundwater.

12.5 Results of PBT and vPvB assessment

Mixture does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6 Endocrine disrupting properties


Mixture does not contain any substances with endocrine-disrupting properties entered in the list established in accordance with Art. 59 section 1 in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

None known.

Section 13: Disposal considerations

13.1 Waste treatment methods

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Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Waste code: waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

Section 14: Transport information

14.1 UN number or ID number: UN 1263

14.2 UN proper shipping name: PAINT

14.3 Transport hazard class(es): 3



14.4 Packing group: II

14.5: Environmental hazards: not applicable

14.6 Special precautions for user:


Limited quantities: 5 L

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

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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2. Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

3. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Substances subject to the authorization procedure - Annex XIV to Reg. (EC) No. 1907/2006 (REACH): none of the product ingredients are listed.

Substances of Very High Concern (SVHC) - Candidate List: none of the product ingredients are listed.

Restrictions on the production, placing on the market and use of certain hazardous substances, mixtures and articles - Annex XVII to Regulation (EC) No. 1907/2006 (REACH): none of the product ingredients are listed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16: Other information

Full text of hazard statements:

H226 Flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.


Abbreviations and acronyms used in the safety data sheet:

CAS no - unique identification number assigned by the Chemical Abstracts Service (CAS).

EC no - unique seven-digit identifier that was assigned to substances for regulatory purposes within the European Union by the European Commission.

Index no - number identifying the substance from Annex VI to Regulation (EC) No 1272/2008 (CLP) with a harmonized classification.

PBT - Persistent, bioaccumulative and toxic chemicals.

	SAFETY DATA SHEET According to Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 (REACH)	Version: 2.0
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vPvB - Very persistent and very bioaccumulative.

PNEC - Predicted no effect concentration.

DNEL - Derived no-effect level.

LD50 - Lethal dose for 50%.

LC50 - Lethal concentration for 50%.

EC50 - Half maximal effective concentration.

ATEmix - Acute Toxicity Estimate of the whole mixture.

Key literature references and sources for data:

1. Registration dossiers for components available at <https://echa.europa.eu>
2. Safety data sheets of ingredients included in mixture.

Advice on any training appropriate for workers to ensure protection of human health and the environment:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

Additional information: a calculation method was used to make the classification by applying to the classification criteria for each hazard class taking into account the further differentiation contained in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 of 16 December 2008 on the classification, labeling, packaging of substances and mixtures.

The update applies to subsection: 1.3.

----- END OF SAFETY DATA SHEET-----