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

1.1. Product identifier

Product form:	Mixture
Name:	Glass fiber filler
Trade name:	AERO GLASS FILLER
UFI Code:	E721-U02G-K00V-TA8G

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

Relevant identified uses:

Main use category:	Professional use.
Use of the substance/mixture:	The product is intended for professional use

1.3. Details of the supplier of the safety data sheet

Przedsiębiorstwo RANAL Sp. z o.o.
Ul. Łódzka 3
42-240 Rudniki k. Częstochowy, PL

Phone: +48 34 329 45 03
Registration number 000029202

Person responsible for the safety data sheet: ranal@ranal.pl

1.4. Emergency telephone number

112 (general emergency number)
+48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the regulation (EC) no 1272/2008[CLP]:

Flammable liquids, cat. 3	H226
Skin corrosion/irritation, cat. 2	H315
Serious eye damage/eye irritation, hazard cat 2	H319
Reproduction toxicity, cat. 2	H361d
Specific target organ toxicity - repeated exposure, cat. 1	H372

Full text of H and EUH phrases: see section 16.

Adverse effects related to physicochemical properties, effects on human health and the environment:
No further data available.

2.2. Label elements

Labelling according to the regulation (EC) no 1272/2008 [CLP].

Hazard pictograms (CLP):

GHS02 GHS07 GHS08

Signal word: **Danger**

Contains: styrene

Hazard statements (CLP):

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes eye irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (organ of hearing) through prolonged or repeated exposure.

Precautionary statements (CLP):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/ vapours.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

EUH phrases:
EUH211: Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.

2.3. Other hazards

Other hazards which do not result in classification:

Vapours may form an explosive mixture with air. Vapours are heavier than air and they spread along the ground. Hazardous polymerization may occur when exposed to high temperatures.

Does not contain PBT/vPvB substances ≥ 0.1% assessed in accordance with Annex XIII of REACH.

The mixture does not contain any substance(s) included in the list established in accordance with Art. 59 sec. 1 of the REACH Regulation due to endocrine disrupting properties or is not identified as endocrine disrupting in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0,1 % by weight.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification according to the regulation (EC) no 1272/2008[CLP]
Styrene The substance has an occupational exposure limit(s) (PL) (Note D)	CAS number: 100-42-5 EC number: 202-851-5 Index number: 601-026-00-0 REACH: 01-2119457861-32	10-20	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372
Titanium dioxide ;[as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm] The substance has an occupational exposure limit(s) (PL) (Note V)(Note W)(Note 10)	CAS number: 13463-67-7 EC number: 236-675-5 Index number: 022-006-00-2 REACH: 01-2119489379-17	< 3	Carc. 2, H351
Acetone the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *	CAS number: 67-64-1 EC number: 200-662-2 Index number: 606-001-00-8 REACH: 01-2119471330-49	< 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Potassium 2-ethylhexanoate	CAS number: 3164-85-0 EC number: 221-625-7 REACH: 01-2119980714-29	< 0.6	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361d

Note 10: The classification as an inhalation carcinogen applies only to mixtures in the form of a powder containing 1 % or more of titanium dioxide in the form of particles with an aerodynamic diameter of ≤ 10 µm or incorporated in such particles.

Note D: Certain substances that are prone to spontaneous polymerization or decomposition are generally placed on the market in a stabilized form. This is the form in which they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state the name of the substance on the label, followed by the word 'unstabilised'.

Note V: If the substance is to be placed on the market as fibers (diameter < 3 µm, length > 5 µm, aspect ratio ≥ 3:1) or as particles of the substance meeting the WHO criteria for fibers or as particles with modified surface chemistry, their hazardous properties should be assessed in accordance with Title II of this Regulation to assess whether a higher category should be applied (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal).

Note W: A carcinogenic risk associated with this substance has been observed to occur when respirable dust is inhaled in amounts that severely impair the natural mechanisms for clearing particles from the lungs. This note is a description of the specific type of toxicity of the substance, not a criterion for classification under this Regulation.

Full text of hazard statements provided in section 16 of the Sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:
See section 11 of the Material Safety Data Sheet.

First aid – after inhalation:
If difficulties in breathing occur, remove the victim to fresh air and keep at rest in a position comfortable for breathing.

First aid- after skin contact:
In case of skin contamination, immediately remove all contaminated clothing and wash contaminated skin with plenty of soap and water. Rinse skin with water/or shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation persists, consult a doctor.

First aid- after contact with eyes:
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor. In the case of contact with eyes, immediately rinse with plenty of water and get medical advice.

First aid- after ingestion:
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor.

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

Symptoms/effects in the event of inhalation: Vapours may cause drowsiness and dizziness.
Symptoms/effects in the event of skin contact: Prolonged or repeated contact may cause skin dryness.
Symptoms/effects in the event of contact with eyes: May cause eye irritation.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing agents: Extinguishing powder, foam resistant to alcohol, carbon dioxide, water mist.
Unsuitable extinguishing media: do not use a strong stream of water.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in the event of fire: Carbon monoxide. Other toxic gases.

5.3. Advice for fire fighters
Protection during firefighting: Do not intervene without appropriate protective equipment. Self-contained, breathing apparatus. Compete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

6.1.1. For personnel non taking part in emergency procedures:
Eliminate all sources of ignition. Provide adequate ventilation. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Use the required Personal protection measures – see section 8 of the Sheet.

6.1.2. For personnel taking part in emergency procedures:
Protective equipment: Do not intervene without appropriate protective equipment. See section 8.

6.2. Environmental precautions
Avoid release to the environment. Prevent from entering surface water and sewage system. Do not allow the product to enter groundwater, water reservoirs or sewage systems, even in small quantities.

6.3. Methods and materials for containment and cleaning up
Preventing the spread of contamination: Cover the spilled product with a non-combustible material such as sand, earth, vermiculite.
Collect the product mechanically.

6.4. Reference to other sections
Personal protection measures – see section 8 of the Sheet.
Disposal considerations – see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Precautions for safe handling: Provide good ventilation of the workplace. Keep away from heat sources, hot surfaces, sources of sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protection measures.

Hygiene recommendations: Wash contaminated clothes before using them again. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink and smoke when using the product. Wash hands after each contact with the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Ground/bond container and receiving equipment.
Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Specific end use(s)
No further data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

National values of the highest permissible concentrations in the work environment and biological limit values

Styrene (100-42-5)	
Poland- The highest permissible concentration at the workplace	
Local name	Styrene
NDS (OEL TWA)	50 mg/m³
NDSCh (OEL STEL)	100 mg/m³

Regulatory reference	Journal of Laws of 2024, item 1017, as amended.
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
Poland- The highest permissible concentration at the workplace	
Local name	Titanium dioxide
NDS (OEL TWA)	10 mg/ m³ inhalable fraction
Warning	Inhalable fraction – the fraction of the aerosol that penetrates through the nose and mouth and poses a health risk when deposited in the respiratory tract. The respirable fraction of crystalline silica is determined in parallel.
Regulatory reference	Journal of Laws of 2024, item 1017, as amended.
acetone (67-64-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetone
IOEL TWA	1210 mg/m³
	500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Poland- The highest permissible concentration at the workplace	
Local name	Acetone
NDS (OEL TWA)	600 mg/m³
NDSCh (OEL STEL)	1800 mg/m³
Regulatory reference	Journal of Laws of 2024, item 1017, as amended.

Recommended monitoring procedures
Monitoring method: EN 482. Exposure at workplaces– general requirements for the characteristics of chemical agents measurement procedures.

DNEL and PNEC

Styrene (100-42-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects after inhalation	100 mg/m³
Acute - local effects after inhalation	100 mg/m³
Long - term systemic effects after inhalation	100 mg/m³
Long - term local effects after inhalation	100 mg/m³
DNEL/ DMEL (General population)	
Acute - systemic effects after inhalation	10 mg/m³
Acute - local effects after inhalation	10 mg/m³
Long - term systemic effects after ingestion	7.7 µg/kg body weight /day
Long - term systemic effects after inhalation	1 mg/m³
Long - term local effects after inhalation	1 mg/m³
PNEC (Water)	
PNEC (freshwater)	0.04 mg/l
PNEC (sea water)	0.04 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	0,418 mg/kg of dry mass
PNEC sediments (sea water)	0,418 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	0,146 mg/kg of dry mass

acetone (67-64-1)	
DNEL/DMEL (Workers)	
Acute - local effects after inhalation	2420 mg/m³
Long-term - systemic effects, in contact with skin	186 mg/kg body weight /day
Long - term systemic effects after inhalation	1210 mg/m³
DNEL/ DMEL (General population)	
Long - term systemic effects after ingestion	62 mg/kg body weight /day
Long - term systemic effects after inhalation	200 mg/m³
Long-term - systemic effects, in contact with skin	62 mg/kg body weight /day
PNEC (Water)	
PNEC (freshwater)	10.6 mg/l
PNEC (sea water)	1.06 mg/l
PNEC aqua (intermittent, freshwater)	21 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	30,4 mg/kg of dry mass
PNEC sediments (sea water)	3,04 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	29,5 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	100 mg/l

8.2. Exposure control

Technical control measures
Provide good ventilation of the workplace.

Personal protective equipment

Symbols of personal protective equipment:

Eye or face protection:
Eyes protection: Safety glasses

Skin protection:
Skin and body protection: Wear suitable protective clothes.

Hands protection:
Protective gloves.

Hand protection					
Type	**Material**	**Breakthrough time**	**Thickness (mm)**	**Penetration**	**Standards**
Disposable gloves	Viton® II	6 (> 480 minutes)	0,7 mm		EN 374-3, EN ISO 374-1
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	0,4 mm		EN 374-3

Respiratory protection
Respiratory protection: In case of insufficient ventilation wear suitable breathing apparatus.

Respiratory protection			
Equipment	**Filter type**	**Condition**	**Standard**
Gas mask with filter type	Filter A1/B1		EN 14387

Environmental control
Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	beige
Odour	characteristic, sweet
Odour threshold	0,43 mg/m^3 styrene; vinylbenzene
Melting point	not applicable
Freezing point	not available
Boiling point	not available
Flammability of the materials	not applicable
Explosive properties	no data
Bottom explosion limit	1,1 % vol. styrene, vinylbenzene
Top explosion limit	8,0 vol % styrene, vinylbenzene
Flash point	30°C
Auto ignition point	490°C
Decomposition temperature	not available
pH	not available
Kinematic viscosity	30434.783– 39130.435 mm²/s
Dynamic viscosity	35000 – 45000 mPas
Solubility	poorly soluble
n-octanol/water partition coefficient (log Kow)	not available
Vapour pressure	7,3 hPa styrene, vinylbenzene
Vapour pressure at 50°C	not available
Density	1,15 g/cm^3
Relative density	not available
Relative vapour density at 20°C	not available
Relative density of saturated vapour/air mixture	3.6 styrene, vinylbenzene
Particle characteristics	not applicable

9.2. Other information
No further data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Stable under normal conditions of use, storage and transport.

10.2. Chemical stability
Product stable under normal conditions of use.

10.3. Possibility of hazardous reactions
May cause strong reactions with alkaline products as well as organic products , such as alcohols and amines. Hazardous polymerization may occur when exposed to high temperatures.

10.4. Conditions to avoid
Protect against ignition sources. Avoid the accumulation of electrostatic charges (e.g. by grounding). Protect from sunlight. Avoid high temperatures.

10.5. Incompatible materials
Avoid contact with : strong acids, strong bases and strong oxidants.

10.6. Hazardous decomposition products
No hazardous product shall be formed under normal conditions of storage and use. Thermal decomposition may produce: Carbon monoxide. Other toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity (oral): Not classified (based on available data the classification criteria are not met).
Acute toxicity (skin): Not classified (based on available data the classification criteria are not met).
Acute toxicity (inhalation): Not classified (based on available data the classification criteria are not met).

Styrene (100-42-5)	
LD50 oral, rat	5000 mg/kg Source: ECHA
LD50, skin, rat	> 2000 mg/kg Source: ECHA
LC50 inhalation - rat (vapours)	11.8 mg/l Source: ECHA
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
LC50 inhalation - rat (dust/mist)	> 6.82 mg/l Source: ECHA
acetone (67-64-1)	
LD50 oral, rat	5800 mg/kg body weight Animal: rat, animal sex: female
LD50 skin, rabbit	> 7400 mg/kg Source: ECHA
LC50 inhalation - rat	76 mg/l air Animal: rat, animal sex: female, 95% CL: 65.2 - 88.4
LC50 inhalation - rat (vapours)	76 mg/l Source: ECHA
Potassium 2-ethylhexanoate (3164-85-0)	
LD50 oral, rat	2043 mg/kg Source: ECHA
LD50 Oral	2400 – 2400 mg/kg body weight Animal: other
LD50, skin, rat	> 2000 mg/kg body weight Animal: rat, animal Guideline: OECD Guidelines 402 (Acute dermal toxicity)
ATE CLP (oral)	2043 mg/kg bw

Skin corrosion/irritation: Causes skin irritation.

Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
pH	7 Source: ECHA
acetone (67-64-1)	
pH	5 Source: ECHA

Serious eye damage/eye irritation: Causes eye irritation.

Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
pH	7 Source: ECHA
acetone (67-64-1)	
pH	5 Source: ECHA

Respiratory or skin sensitisation: Not classified (based on available data the classification criteria are not met).
Germ cell mutagenicity: Not classified (based on available data the classification criteria are not met).
Carcinogenicity: Not classified (based on available data the classification criteria are not met).

Styrene (100-42-5)	
IARC Group	2B - May be carcinogenic to humans
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
IARC Group	2B - May be carcinogenic to humans

Harmful effect on reproduction: Suspected of damaging the unborn child.

acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg body weight Animal: Mouse, animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg body weight Animal: rat, animal sex: male, Notes on effects: other Generation not specified (information transferred)

Specific target organ toxicity – single exposure: Not classified (based on available data the classification criteria are not met).

acetone (67-64-1)	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: Causes damage to organs (organ of hearing) through prolonged or repeated exposure.

Styrene (100-42-5)	
Specific target organ toxicity – repeated exposure:	Causes damage to organs (organ of hearing) through prolonged or repeated exposure.
Potassium 2-ethylhexanoate (3164-85-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	180 mg/kg body weight Animal: Mouse, animal sex: male, Guideline: other
NOAEL (subchronic, oral, animal/female, 90 days)	205 mg/kg body weight Animal: Mouse, animal sex: female, Guideline:

	other

Aspiration hazard: Not classified (based on available data the classification criteria are not met).

AERO GLASS Filler	
Kinematic viscosity	30434.783 – 39130.435 mm²/s

11.2. Information on other hazards
Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties
The mixture does not contain any substance(s) included in the list established in accordance with Art. 59 sec. 1 of the REACH Regulation due to endocrine disrupting properties or is not identified as endocrine disrupting in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0,1 % by weight.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Hazardous for the aquatic environment, short-time (acute): Not classified (based on available data the classification criteria are not met).
Hazardous to the aquatic environment, long-term (chronic): Not classified (based on available data the classification criteria are not met).

Styrene (100-42-5)	
LC50 - Fish [1]	10 mg/l Source: ECHA
EC50 - Crustaceans [1]	4.7 mg/l Source: ECHA
EC50 72h - Algae [1]	4.9 mg/l Source: ECHA
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
LC50 - Fish [1]	> 100 mg/l
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA
acetone (67-64-1)	
LC50 - Fish [1]	5540 mg/l Source: ECHA
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Potassium 2-ethylhexanoate (3164-85-0)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustaceans [1]	910 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	49.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	63 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

AERO GLASS Filler	
Persistence and degradability	No rapidly degradable
Styrene (100-42-5)	
Persistence and degradability	No rapidly degradable
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
Persistence and degradability	No rapidly degradable
acetone (67-64-1)	
Persistence and degradability	No rapidly degradable
Potassium 2-ethylhexanoate (3164-85-0)	
Persistence and degradability	No rapidly degradable

12.3. Bioaccumulative potential

Styrene (100-42-5)	
n-octanol/water partition coefficient (Log Pow):	2.95 Source: HSDB,CHemIDplus
acetone (67-64-1)	
n-octanol/water partition coefficient (Log Pow):	-0.24 Source: ICSC

12.4. Mobility in soil
No further data available.

12.5. Results of PBT and vPvB assessment
No further data available.

12.6. Endocrine disrupting properties
Adverse health effects caused by endocrine disrupting properties
The mixture does not contain any substance(s) included in the list established in accordance with Art. 59 sec. 1 of the REACH Regulation due to endocrine disrupting properties or is not identified as endocrine disrupting in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0,1 % by weight.

12.7. Other adverse effects
No further data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional waste regulations: Dispose of according to applicable regulations.
Waste treatment methods: Dispose of the contents/container as directed by an authorized sorting and collection center.
Waste water disposal recommendations: Do not discharge the product into the sewage system.
Product/packaging disposal recommendations: Dispose of the product and packaging as hazardous waste. Do not dispose of with household waste. After cleaning, recycle or dispose of at an authorized facility.
Additional information: Flammable vapours may accumulate in the container.

European Waste Catalogue (LoW, EC 2000/532):
08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances (e.g. plant protection products of I and II toxicity class - very toxic and toxic)

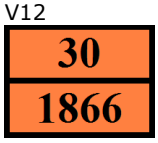
SECTION 14: TRANSPORT INFORMATION

According to ADR/ IMDG/ IATA:

ADR	IMDG	IATA
14.1. UN number or ID number		
UN1866	UN1866	UN1866
14.2. UN proper shipping name		
RESIN, SOLUTION*	RESIN SOLUTION *	RESIN SOLUTION *
Description of the shipping document		
UN 1866 RESIN, SOLUTION, 3, III, (D/E)	UN 1866 RESIN SOLUTION, 3, III (30°C c.c.)	UN 1866 Resin solution, 3, III
14.3. Transport hazard class (-es)		
3	3	3
		
14.4. Packaging group		
III	III	III
14.5. Environmental hazards		
Environmentally hazardous: No	Environmentally hazardous: No Marine pollutants: No EmS number (Fire): F-E EmS number (Spillage): S-E	Environmentally hazardous: No
No further data available.		

14.6. Special precautions for users

Road transport

Classification code (ADR):	F1
Limited Quantities (ADR):	5 L
Special packing provisions (ADR):	PP1
Mixed Packing Regulations (ADR):	MP19
Transport category (ADR):	3
Special provisions for carriage – Packages:	V12
Orange Tiles:	
Tunnel restriction code (ADR):	D/E

Sea transport

Special provisions (IMDG):	223, 955
Limited Quantities (IMDG):	5 L
Special packing provisions (IMDG):	PP1
Cargo Stowage Category (IMDG):	A

Air transport
No data.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU Provisions
Annex XVII to the REACH Regulation (restriction conditions): It does not contain substances listed in Annex XVII to the REACH Regulation (restriction conditions).
Annex XIV to the REACH Regulation (List of Authorizations)**:** It does not contain substances listed in Annex XIV to the REACH Regulation (List of Authorizations)**.**
REACH Candidate List (SVHC)**:** Contains no substances listed on the REACH Candidate List**.**
PIC Regulation (EU 649/2012, Prior Informed Consent): It does not contain substances listed on the PIC list (EU Regulation 649/2012 on the export and import of dangerous chemicals)**.**
POP Regulation (EU 2019/1021, Persistent Organic Pollutants)**:** It does not contain substances listed on the POP list (EU Regulation 2019/1021 on persistent organic pollutants)**.**
Ozone Regulation (2024/590)**:** Contains no substances listed on the ozone depleting list (EU Regulation 2024/590 on substances that deplete the ozone layer)
Council Regulation (EC) on Dual-Use Controls
Does not contain substances subject to the COUNCIL REGULATION (EC) on Dual-Use Controls.
Explosives Precursors Regulation (EU 2019/1148)**:** It contains substances contained on the list of explosives precursors (EU Regulation 2019/1148 on the marketing and use of explosives precursors)**.**
Annex II EXPLOSIVE PRECURSORS SUBJECT TO NOTIFICATION
List of substances, on their own or in mixtures or substances, for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS number:	Combined Nomenclature (CN) code	Code in the Combined Nomenclature of the mixture without components that would determine the classification under another CN code
Acetone	67-64-1	2914 11 00	Ex 3824 99 92

Drug Precursors Regulation (EC 273/2004): It contains substance(s) listed on the list of drug precursors (Regulation EC 273/2004 on the manufacture and marketing of certain substances used for the illicit manufacture of narcotic drugs and psychotropic substances).

Name	CN marking	CAS number:	CN code:	Category Subcategory	Limit	ANNEX
Acetone		67-64-1	2914 11 00	Category 3		ANNEX 1

Other regulations:
- Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.
- 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 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
- 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
- ADR Agreement

15.2. Chemical safety assessment
Chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Indication of changes:
Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.

Explanation of abbreviations and acronyms used in the MSDS:
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.
ATE Estimated acute toxicity
BCF BCF bioconcentration factor
BLV Quantitative limit value
BOD Biochemical Oxygen Demand (BOD)
COD Chemical oxygen demand (COD)
DMEL Derived level causing minimal changes
DNEL Derived no effect level
EC no the number assigned to a chemical substance in the European Inventory of Existing Commercial Chemical Substances (EINECS), or a number in the European Inventory of Notified Chemical Substances, mentioned in "No-longer polymers" publication (EINECS) or a number on the list of chemicals listed in 'No-longer polymers'.
EC50 Medium effective concentration
EN European standard
IARC International Agency for Research on Cancer
IATA International Air Transport Association

IMDG International Maritime Code for Dangerous Goods
LC50 The concentration of the substance causing the death of 50% of the population of test organisms
LD50 The Dose causing the death of 50% of the population of test organisms
LOAEL The lowest level at which harmful changes are observed
NOAEC Concentration at which no adverse effects are observed
NOAEL Dose level at which no adverse effects are observed
NOEC Maximum Concentration at which no adverse effects are observed
OECD Organization for Economic Cooperation and Development
OEL Occupational exposure limit value
PBT substance, which is Persistent, Bio-accumulative and toxic
PNEC Predicted no-effect concentration
RID Regulations Concerning the International Transport of Dangerous Goods by Rail
SDS Material Safety Sheet
STP Sewage Treatment Plant
ThOD Theoretical Oxygen Demand (ThOD)
TLM Middle tolerance limit
VOC Volatile Organic Compounds
N.O.S. Not otherwise specified
vPvB very Persistent and very Bio-accumulative
ED Endocrine disrupting properties
CAS no numerical symbol ascribed to a chemical substance by the American organization Chemical Abstracts Service (CAS).
MPC maximum permissible concentration of health hazardous substances in the work place
MPIC Maximum Permissible Instantaneous Concentration.
NDSP Maximum Permissible Ceiling Concentration.
PBC Permissible concentration in biological material
UN number four-digit identification number of a substance, preparation or product pursuant to UN model regulations

Data sources: ECHA (European Chemicals Agency).
Directions for training: Use in accordance with health and safety rules and safety procedures.

Full text of H and EUH phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (after inhalation), cat. 4.
Carc. 2	Carcinogenicity, cat. 2
Eye Dam. 1	Serious eye damage/eye irritation, cat. 1
Eye Irrit. 2	Serious eye damage/eye irritation, hazard cat.. 2.
Flam. Liq. 2	Flammable liquids, cat. 2.
Flam. Liq. 3	Flammable liquids, cat. 3
Repr. 2	Reproduction toxicity, cat.2
Skin Irrit. 2	Skin corrosion/irritation, cat. 2
STOT RE 1	Specific target organ toxicity – repeated exposure, cat. 1
STOT SE 3	Specific target organ toxicity – single exposure, cat. 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (organ of hearing) through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.

Classification and procedure used to determine the classification of mixtures according to the Regulation (EC) 1272/2008[CLP]

Flam. Liq. 3	H226	Based on research results
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361d	Expert assessment
STOT RE 1	H372	Calculation method

The information provided is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. Therefore, they should not be understood as a guarantee of any specific product properties.

Changes compared to the previous sheet: -

Sheet number: 00-0P1L-0825-V1