Professional Advanced Clear

Safety Data Sheet

complies with Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) 2020/878
Issue Date: 08/31/2022 Revision Date: 08/31/2022 Version: 1.0

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

1.1. Product identifier

Product shape : Blend
Product name : Professional Advanced Clear
Product code :

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

1.2.1. Relevant identified uses

Intended for the general public
Main use category : Industrial use, Consumer use
Use of the substance/mixture : Coating

1.2.2. Uses not recommended

No information complementary available

1.3. Information concerning the supplier of the safety data sheet

Supplier
Greencorp Magnetics Deutschland GmBH
Rilkestrasse 72, Bonn D-53225
DeutschlandT +49 228 973 7817
info@greencorpmarine.com

1.4. Emergency call number

Emergency number : ORFILA number (INRS) + 33 (0)1 45 42 59 59

SECTION 2 : Hazard Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	H226
Eye Irrit. 2	H319
Skin Sens. 1	H317

Full text of hazard classes and H phrases: see section 16

Adverse physicochemical effects on human health and the environment

No additional information available

2.2. Labeling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS02 GHS07

Signal word (CLP) : Attention
Contains : 2-Butanone, O,O',O''-(methylsilylidyne)trioxime; N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine; 2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime
Hazard statements (CLP) : H226 - Flammable liquid and vapor.
H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.
Precautionary statements (CLP) : 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.

		P233 - Keep container tightly closed. P405+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.
Unknown acute toxicity (CLP) - SDS	:	9.79 percent of the mixture consists of components of unknown acute toxicity (Oral) 4.92 percent of the mixture consists of components of unknown acute toxicity (Dermal) 12.57 percent of the mixture consists of components of unknown acute toxicity (Inhalation (Vapor))
Hazards to the aquatic environment unknown (CLP)	:	Contains 68.86% of components whose toxicity to the aquatic environment is unknown
Child safety lock	:	Not applicable
Danger indications detectable by touch	:	Not applicable

2.3. Other hazards

Other unclassified hazards : None identified.

The mixture does not contain substances included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not recognized as having endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3 : Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Light aromatic solvent naphtha (Note P)	CAS No .: 64742-95-6 EC No .: 265-199-0;918-668-5 Index No .: 649-356-00-4	20 – 30	Flam. Liq. 1, H224 Asp. Tox. 1, H304
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	CAS No .: 22984-54-9 EC No .: 245-366-4	3 – 7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime	CAS No .: 2224-33-1 EC No .: 218-747-8	1 – < 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	CAS No .: 1760-24-3 EC No .: 217-164-6 REACH No .: 01-2119970215-39	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Sens. 1B, H317 STOT RE 2, H373

Note P: The harmonised classification as carcinogenic or mutagenic applies, unless it can be established that the substance contains less than 0.1% w/w benzene (Einecs No. 200-753-7), in which case the classification is carried out in accordance with Title II of this Regulation for these hazard classes as well. If the substance is not classified as carcinogenic or mutagenic, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 apply.
Full text of H and EUH statements: see section 16

SECTION 4 : First aid

4.1. Description of first aid

First aid after inhalation : If breathing is difficult, remove the victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if you feel unwell.

First aid after skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First aid after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First aid after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a doctor if you feel unwell.

4.2. Main symptoms and effects, acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, swelling, defatting, drying, and cracking of the skin. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes severe eye irritation. Symptoms may include discomfort or pain, excessive blinking and excessive tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause digestive tract irritation, nausea, vomiting, and diarrhea.

4.3. Indication of any immediate medical care and special treatments required

Symptoms may appear later. Treat symptomatically. In case of accident or if you feel unwell, consult a doctor immediately (show the label where possible).

SECTION 5 : Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder. Water fog. Foam. Carbon dioxide.

Unsuitable extinguishing agents : Do not use a strong stream of water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor. Combustion products may include, but are not limited to: oxides of carbon. Nitrogen. Nitrogen oxides. Hydrogen cyanide. Formaldehyde. Silicon compounds.

Danger of explosion : May form flammable/explosive vapor-air mixtures.

5.3. Advice to firefighters

Firefighting instructions : Cool closed packages exposed to fire with water.

Fire protection : Stay upwind of the fire. Wear full protective clothing, including breathing apparatus (SCBA). Vapors are heavier than air and may travel far from the point of release before igniting and returning to their source.

SECTION 6 : Measures to be taken in the event of accidental release

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear the protective clothing recommended in Section 8. Isolate the hazard area and deny access to unprotected and unauthorized personnel. Do not use spark-producing tools. Take special precautions to avoid static electricity charges. Eliminate all sources of ignition.

6.1.1. For non-rescuers

No information complementary available

6.1.2. For rescuers

No information complementary available

6.2. Precautions for environmental protection

Do not allow to enter drains, sewers, ditches, or waterways. To prevent environmental contamination, minimize water consumption.

6.3. Methods and materials for containment and cleaning

For retention	:	Stop the leak if it can be done without danger. Contain and/or absorb the spill with an inert substance (e.g. sand or vermiculite) and then place in a suitable container. Do not discharge into surface water or drains. Wear the recommended personal protective equipment.
Cleaning processes	:	Sweep or shovel spilled material into a suitable container for disposal. Ventilate the area.

6.4. Reference to other sections

For further information, refer to section 8: "Exposure control - personal protection".

SECTION 7 : Handling and storage

7.1. Precautions for safe handling

Additional dangers during processing	:	Handle empty containers with care, as residual vapors are flammable.
Precautions for safe handling	:	Read the label before use. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using, do not eat, drink, or smoke. Keep away from sources of ignition - No smoking. Take precautionary measures against electrostatic discharge. Use explosion-proof equipment. Do not use spark-producing tools. Ground/bond container and receiving equipment.
Hygiene measures	:	Remove all contaminated clothing immediately and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms, and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Follow proper grounding procedures to avoid static electricity.
Storage conditions	:	Keep out of reach of children. Keep container tightly closed. Store in a dry, cool, and well-ventilated place. Do not store at temperatures exceeding 30°C / 86°F. Store away from sources of ignition.

7.3. Specific end use(s)

Not available.

SECTION 8 : Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational and biological exposure limit values

No information complementary available

8.1.2. Recommended monitoring procedures

Consult the control standards applicable for the region

8.1.3. Atmospheric contaminants formed

No information complementary available

8.1.4. DNEL and PNEC

Not applicable

8.1.5. Control strip

No information complementary available

8.2. Exposure controls

8.2.1. Appropriate technical controls

Appropriate technical controls :
Ventilate/ventilate the premises to keep exposure to airborne dust, chemical fumes, smoke, etc., below permissible limits.

8.2.2. Personal protective equipment

8.2.2.1. Eye and face protection

Eye protection :
Protective eyewear conforming to an approved standard, such as European Standard EN166, should be used where a risk assessment indicates this is necessary to avoid exposure to splashes, mists or dusts from the liquid.

8.2.2.2. Skin protection

Skin and body protection :
Wear appropriate protective clothing

Hand protection :
Chemical-resistant gloves (according to standard NF EN 374 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection :
In case of insufficient ventilation, wear appropriate respiratory protection. The choice of respiratory protection should be based on the expected or known exposure levels, the hazards of the product and the safe use limits of the chosen respiratory protection.

8.2.2.4. Protection against thermal risks

Protection against thermal hazards :
Use the required personal protective equipment.

8.2.3. Environmental exposure control

Environmental exposure control :
Avoid release to the environment.

Other information :
Handle product in accordance with good industrial hygiene and safety procedures. Do not eat, smoke, or drink where the substance is handled, processed, or stored. Wash hands thoroughly before eating or smoking.

SECTION 9 : Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Colorless.
Appearance	:	Translucent. Clear.
Smell	:	Hydrocarbon.
Olfactory threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	150 – 185 °C (302°F - 365°F) (Solvent)
Flammability	:	Flammable liquid and vapor.
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	38 – 50 °C (100.4°F - 122°F) (Solvent)
Autoignition temperature	:	Please refer to the component values below
Decomposition temperature	:	Not available
pH	:	Hardens on contact with water
Relative evaporation rate (butyl acetate=1)	:	0.2 (Light aromatic solvent naphtha)
Viscosity, kinematics	:	1000 mm²/s @ 104°F
Viscosity, dynamics	:	≈ 1000 cP
Solubility	:	Not available
n-octanol/water partition coefficient (Log Kow)	:	Not available
Vapor pressure	:	Please refer to the component values below
Vapor pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	0.98
Relative vapor density at 20°C	:	Not available
Size of a particle	:	Not applicable
Particle size distribution	:	Not applicable

Particle shape	:	Not applicable
Aspect ratio of a particle	:	Not applicable
Aggregation state of particles	:	Not applicable
State of agglomeration of particles	:	Not applicable
Specific surface area of a particle	:	Not applicable
Dust particles	:	Not applicable

2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9)	
Flash point	106.7°C Atm. pressure: 101.3 kPa
Vapor pressure	0.085 Pa Temp.: 25 °C

2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime (2224-33-1)	
Flash point	> 99°C Atm. pressure: 1013 hPa
Vapor pressure	0.025 Pa Temp.: 25 °C

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
Flash point	98 °C Atm. press.: 101.3 kPa

Light aromatic solvent naphtha (64742-95-6)	
Boiling point	-20 – 260°C Atm. pressure: 101.325 kPa
Flash point	< -40°C (closed cup)
Autoignition temperature	280 – 470 °C (at 1013 hPa
Vapor pressure	350 – 900 hPa (at 37.8 °C)

9.2. Other information

9.2.1. Information regarding physical hazard classes

No information complementary available

9.2.2. Other safety features

No information complementary available

SECTION 10 : Stability and responsiveness

10.1. Reactivity

No dangerous reaction known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapor-air mixtures.

10.3. Possibility of hazardous reactions

No dangerous reaction known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials. Ignition sources. Direct sunlight.

10.5. Incompatible materials

Powerful oxidants. Water.

10.6. Hazardous decomposition products

May include, but are not limited to: carbon oxides. nitrogen oxides. Nitrogen oxides. Hydrogen cyanide. Formaldehyde. Silicon compounds.

SECTION 11 : Toxicological information

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

Acute toxicity (oral) : Unclassified.
Acute toxicity (cutaneous) : Unclassified.
Acute toxicity (Inhalation) : Unclassified.

2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9)	
LD50 cutaneous rat	> 2000 mg/kg

2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime (2224-33-1)	
Oral LD50 rat	> 2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
LD50 cutaneous rat	> 2009 mg/kg

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
Oral LD50 rat	2413 mg/kg
LD50 rabbit skin	> 2009 mg/kg
CL50 inhalation rat	1.49 – 2.44 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ETA CLP (oral route)	2413 mg/kg body weight
ETA CLP (dust, mist)	1.5 mg/l/4h

Light aromatic solvent naphtha (64742-95-6)	
Oral LD50 rat	8400 mg/kg
LD50 rabbit skin	> 2000 mg/kg
CL50 inhalation rat	3400 ppm/4h
ETA CLP (oral route)	8400 mg/kg body weight
ETA CLP (gas)	3400 ppmv/4h

Unknown acute toxicity (CLP) - SDS : 9.79 percent of the mixture consists of components of unknown acute toxicity (Oral)
4.92 percent of the mixture consists of components of unknown acute toxicity (Dermal)
12.57 percent of the mixture consists of components of unknown acute toxicity (Inhalation (Vapor))

Skin corrosion/skin irritation : Unclassified.
pH : Hardens on contact with water

Additional information : Based on the available data, the classification criteria are not met.

Serious eye damage/eye irritation : Causes serious eye irritation.
pH : Hardens on contact with water

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Unclassified.

Additional information : Based on the available data, the classification criteria are not met.

Carcinogenicity : Unclassified.

Additional information : Based on the available data, the classification criteria are not met.

Reproductive toxicity : Unclassified.

Additional information : Based on the available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Unclassified.

Additional information : Based on the available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Unclassified.

Additional information : Based on the available data, the classification criteria are not met.

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
NOAEL (cutaneous, rat/rabbit, 90 days)	≥ 1545 mg/kg body weight Animal: rat
Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Unclassified.

Additional information : Based on the available data, the classification criteria are not met.

Professional Advanced Clear	
Viscosity, kinematics	1000 mm²/s @ 104°F

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties : The mixture does not contain substances included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not recognized as having endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

Other information : Possible routes of exposure: ingestion, inhalation, skin and eyes.

SECTION 12 : Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Hazards to the aquatic environment unknown (CLP) : Contains 68.86% of components whose toxicity to the aquatic environment is unknown

Hazards to the aquatic environment, short term (acute) : Unclassified.

Long-term (chronic) hazards to the aquatic environment : Unclassified.

2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9)	
CE50 - Crustaceans [1]	> 120 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	94 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
CE50 72h - Algae [2]	50 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronicle)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronicle)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Chronic NOEC fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'

2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime (2224-33-1)	
CE50 - Crustaceans [1]	> 120 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	94 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
CE50 72h - Algae [2]	50 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
CE50 96h - Algae [1]	49 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronicle)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronicle)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Chronic NOEC fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
CL50 - Fish [1]	597 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
CE50 - Crustaceans [1]	81 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	126 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
CE50 72h - Algae [2]	352 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Light aromatic solvent naphtha (64742-95-6)	
CL50 - Fish [1]	9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
CE50 - Crustaceans [1]	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Professional Advanced Clear	
Persistence and degradability	Not established.

12.3. Bioaccumulation potential

Professional Advanced Clear	
Bioaccumulation potential	Not established.

12.4. Mobility in soil

No information complementary available

12.5. Results of PBT and vPvB assessments

PBT : A PBT assessment has not yet been conducted under REACH for the components. However, there is no indication that this product contains substances that can be classified as PBT.

vPvB : A vPvB assessment has not yet been conducted by REACH for the components. However, there is no indication that this product contains substances that can be classified as vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties : The mixture does not contain substances included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not recognized as having endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

Additional information : No other known effects

SECTION 13 : Disposal Considerations

13.1. Waste treatment methods

Recommendations for disposal of the product or packaging : Dispose of contents/container at a hazardous or special waste collection point in accordance with local, regional, national, and/or international regulations. It is recommended to avoid or reduce waste generation wherever possible.

Additional information : Handle empty containers with care, as residual vapors are flammable.

SECTION 14 : Transport information

In compliance with: ADR

14.1. UN number or identification number

UN No. (ADR) : UN 1263

14.2. UN proper shipping name

Official shipping designation (ADR) : PAINTINGS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Hazard labels (ADR) : 3

:

14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

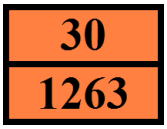
Dangerous for the environment : No
Other information : No additional information available.

14.6. Special precautions to be taken by the user

Precautionary measures for transport : Do not handle until all safety precautions have been read and understood.

Land transport

Orange signs :



14.7. Bulk maritime transport in accordance with IMO instruments

Not applicable

SECTION 15 : Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific to the substance or mixture

15.1.1. EU regulations

Does not contain any substance subject to restrictions according to Annex XVII of REACH
Does not contain any REACH candidate substance.
Does not contain any substances listed in Annex XIV of REACH
Does not contain any substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals.
Does not contain any substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National directives

Undetermined

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16 : Other information

Change instructions :
MSDS Update

Abbreviations and acronyms

°C – Degrees Celsius
°F – Degrees Fahrenheit
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
ACGIH – American Association of Industrial Hygienists, USA
ATE – Acute Toxicity Estimation
BCF – Bioconcentration Factor
BEI – Biological Exposure Index
CAS – Chemical Extract Service
CLP - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR – Carcinogenic, mutagenic, toxic agent for reproduction
cP – centipoise (unit of dynamic viscosity)
cSt – centistokes (unit of kinematic viscosity)
DNEL – Derived No Effect Level
DMEL – Derived Minimal Effect Dose
EC50 – Half of the maximum effective concentration
ECHA – European Chemicals Agency
EC-No. - European Community Number
EU – European Union
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
h – Hours
IATA – International Air Transport Association
IC50 – Minimum Inhibitory Concentration
IDLH – Immediately Dangerous to Life or Health
IMDG – International Maritime Dangerous Goods Code
IOELV – Indicative occupational exposure limit value
KIFS – Code of Statutes of the Swedish Chemicals Agency (Kemi)
kPa – kilopascal
Koc – Adsorption coefficient
Kow – Water-octanol partition coefficient
LC50 – Lethal concentration for 50% of the test population (median lethal concentration)
LD50 – Median lethal dose for 50% of the population tested (median lethal dose)
LOAEL – Lowest Observed Adverse Effect Level
mg/l: Milligram per liter
mg/kg: Milligram per kilogram
mg/m3: Milligram per cubic meter
Min - Minutes
UN No. – UN Number
NIOSH – National Institute for Occupational Safety and Hygiene
NOEC – No observed effect concentration
NO(A)EL – No observed adverse effect level
NSA – Not Otherwise Specified
OEL – Occupational Exposure Limits
PBT – Persistent, Bioaccumulative, Toxic
PCN – Poison Control Center Notification
PNEC – Predicted No Effect Concentration(s)
ppm – parts per million
PVC – Polyvinyl Chloride
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EU) REACH No 1907/2006
RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail
SDS – Safety Data Sheet
STEL – Short Term Exposure Limit
STOT – Specific Target Organ Toxicity
SVHC – Substance of Very High Concern (CMR, vPvB, PBT)
TDI – Tolerable Daily Intake
TLV – Threshold Limit Value - Exposure limit value

Abbreviations and acronyms	
	TWA – Time Weighted Average UFI – Unique Formulation Identifier UN – United Nations - United Nations vPvB – Very persistent, very bioaccumulative WEL – Occupational Exposure Limit Value WGK – Wassergefahrdungklasse – German Water Quality Classification

Data sources : 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.

Other information : None.

Full text of H and EUH phrases	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (Inhalation: dust, mist) Category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Dam. 1	Serious eye damage/eye irritation, category 1
Eye Irrit. 2	Serious eye damage/eye irritation, category 2
Flam. Liq. 1	Flammable liquids, category 1
Flam. Liq. 3	Flammable liquids, category 3
Skin Irrit. 2	Corrosive/irritant to skin, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, category 2
H224	Extremely flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

Classification and method used to derive the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP]		
Flam. Liq. 3	H226	Based on test data
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method

Disclaimer: The statements, technical information, and recommendations contained herein are believed to be true, but are given without warranty of any kind. The information contained herein applies to the specific substance as supplied. It may not be valid for the substance used in combination with any other substance. It is the user's responsibility to ensure the suitability and completeness of this information for their particular use.