

SAFETY DATA SHEET

in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29st, 2015)

Revision:	30.03.2020
VERSION:	1.0 EN

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

1.1 Product identifier

PŁYN DO DEZYNFEKCJI

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

Identified uses: Hand disinfectant Cleaner

SU21: Consumer uses

SU22: Professional uses

Uses advised against: Every way of using not mentioned above or in the point 7.3.

1.3 Details of the supplier of the safety data sheet

PHU HURTOWNIA GAZA JAROSLAW CHRASTEK

65-770 Zielona Góra

ul. Kręta 5

Poland

Email: export@hurtowniagaza.pl

Tel.: +48 504 460 530

E-mail address of person responsible for Safety Data Sheet: biuro@frc.com.pl

1.4 Emergency telephone number

Nationwide emergency telephones (**Mon-Fri 8:00 – 17:00**): **+48 504 460 530**

112 (emergency telephone number). 998 (Fire Brigade), 999 (Medical Rescue Service),

2 SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical and chemical hazards:

Flammable liquids, Hazard Category 2 [Flam. Liq. 2]

Highly flammable liquid and vapour. (H225)

Health hazards

Serious eye damage/eye irritation, Hazard Category 2 [Eye Irrit. 2]

Causes serious eye irritation (H319)

Environmental hazards:

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



GHS02

GHS07

Signal word: DANGER

Hazard statement(s)

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

Precautionary statement(s):

Prevention:

P102 Keep out of reach of children.

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

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501 Dispose of contents /container to the appropriate container in accordance with national regulations

2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu>. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

3 SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable

3.2 Mixtures:

Substance identifier	Name of the substance	Weight fraction %	Classification in line with The Regulation (EC) No. 1272/2008		
			Signal Word Code(s)	Hazard Class and Category Code(s)	Hazard Statement Code(s)
CAS: 64-17-5 WE (EINECS): 200-578-6 Index: 603-002-00-5 REACH-Reg No:01-2119457610-43-xxxx	Ethanol [1]	70-80	GHS02 GHS07 Dgr	Flam. Liq. 2 Eye Irrit. 2	H225 H319

The product contains Glycerin [cas: 56-81-5] [1]

[1] Substance with national [PL,GB] exposure limit in the workplace

Full H phrases are specified in point 16 hereof.

4 SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Move to fresh air. Seek medical advice if cough, shortness of breath or other respiratory problems occur.

After skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Obtain medical attention if irritation persists.

After eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention if irritation persists.

After swallowing: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice if disturbing symptoms occur, show label or container.

4.2 Most important symptoms and effects, both acute and delayed

Use of this product as directed on the label is not expected to result in toxic effects.

Eye contact: Causes serious eye irritation

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Foam, powder, carbon dioxide, water in spray.

Unsuitable extinguishing media:

Jet water.

5.2 Special hazards arising from the substance or mixture

The product is flammable

In fire conditions, harmful gases may be released, containing, among others: carbon, nitrogen and sulphur oxides.

Avoid inhalation of combustion products which may be harmful for health.

5.3 Advice for firefighters

The security measures typical in case of fire. Do not stay in the danger zone without adequate fireresistant clothing and chemical-contained breathing apparatus with independent air circulation. Highly flammable. In the case of a fire or heating pressure increase will occur in the tank, which creates a risk of explosion. Product vapors are heavier than air and accumulate in the lower parts of the premises. There is a high likelihood of an explosive mixture with air - if such a danger occurs, order an immediate evacuation. Containers exposed to fire should be cooled from a safe distance with water spray jet. Do not allow extinguishing water entering drains, surface water and groundwater.

6 SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For the persons not taking part in the elimination of break down effects:

Limit the access of bystanders to the endangered area until proper cleaning operations are completed. In case of major releases, isolate the endangered area. Do not inhale vapours. Avoid contact with skin or eyes. Do not allow the product to enter the mouth. Use personal protective equipment.

For the persons taking part in the elimination of break down effects:

Ensure that breakdown and its results are only trained personnel. Use personal protective equipment.

6.2 Environmental precautions

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product

6.3 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7 SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Eating, drinking and

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use

Storage temperature: 5 °C to 35 °C

7.3 Specific end use(s)

See Section 1.2 SDS.

8 SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Substances whose occupational exposure limits have to be monitored in the work environment:

PL: Ethanol 64-17-5			
NDS		1900 mg/m ³	
GB: Ethanol 64-17-5 [EH40/2005]			
TWA (8h)		STEL (15 minute)	
mg/m ³	ppm	mg/m ³	ppm
1920	1000		
PL: Glycerol - inhalable fraction [56-81-5]			
NDS		10 mg/m ³	
GB: Glycerol, mist [56-81-5]			
TWA (8h)		STEL (15 minute)	
mg/m ³	ppm	mg/m ³	ppm
10			

Legal basis:

The Regulation of the Minister of Labour and Social Policy of June 12th, 2018 on maximal authorised concentrations and intensity of factors harmful to health in work environment (Dz. U. 2018 poz.1286)

The Regulation of the Minister of Health of 2 February 2011. On tests and measurements of health hazard factors in the work environment (Dz. U. No. 33, item. 166, 2011).

The Regulation of the Minister of Health of 30 December 2004. On occupational health and safety related to occurrence of chemical agents at work (Dz. U. No. 11, pos. 86, 2005).

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)

DNEL PNEC

Ethanol (64-17-5)	
DNEL / DMEL (Employees)	
Exposure - local inhalation	1900 mg / m ³
Long-term exposure - general effects skin	343 mg / kg body weight / day
Long-term exposure - general effects inhalation	950 mg / m ³
DNEL / DMEL (General population)	
Exposure - local inhalation	950 mg / m ³
Long-term exposure - general effects, oral	87 mg / kg body weight / day

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

Long-term exposure - general effects inhalation	114 mg / m ³
PNEC	
Long-term exposure - general effects skin	206 mg / kg body weight / day
PNEC water (fresh water)	0.96 mg / l
PNEC water (salt water)	0.79 mg / l
PNEC Sediment (fresh water)	3.6 mg / kg dw
PNEC Sediment (marine water)	2.9 mg / kg dw
PNEC Soil	0.63 mg / kg dw
PNEC Sewage treatment plants	580 mg / l

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Avoid eyes and skin contamination. Ensure adequate general and/or local ventilation to ensure the maintenance of concentrations of hazardous components in the air below the exposure limit values. If there is a risk of inflammation of the clothing on worker, showers and eye safety washers should be installed near the workplace.

Respiratory protection :

If the limit values are exceed or in case of emergency use equipment or suitable protection class filter

Hand and body protection:

It is not required. Recommended use of appropriate protective creams to prevent excessive drying of the skin

Eye protection:

Use tightly fitting protective glasses if there is a risk of eye contamination.

Hygiene at work: Apply general hygiene at work rules. After work, remove contaminated clothes and wash thoroughly the whole body. Wash your hands and face during breaks. Restrain from drinking and eating or smoking at work.

8.3 Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Odour:	Characteristic
Smell threshold:	Information unavailable
pH:	Information unavailable
Melting/ clotting point	Information unavailable
Initial boiling point and boiling range:	Information unavailable
Flash point:	13 °C
Evaporation rate:	Information unavailable
Flammability:	Information unavailable
Upper/lower flammability or explosive limits:	Information unavailable
Vapour pressure [20oC]:	6562 Pa [Ethanol]
Vapour density:	Information unavailable
Relative density 20oC]:	0,792 [Ethanol]
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	Information unavailable
Auto-ignition temperature:	Information unavailable
Decomposition temperature:	Information unavailable.

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

Viscosity:	Information unavailable
Explosive properties:	Not explosive, but vapors may form explosive mixtures with air.
Oxidising properties:	Not oxidising.
9.2 Other information	
Surface tension at 20 °C:	Non applicable
Refraction index:	Non applicable

10 SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Does not undergo hazardous polymerization. See also subsections 10.3 and 10.5

10.2 Chemical stability

The product is stable under normal conditions of handling and storage

10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Avoid contact with oxidants, strong acids

10.6 Hazardous decomposition products

Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. Reference to other sections: 5.2.

11 SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity of mixtures

Based on available information, classification criteria are not met.

Acute toxicity of product:

Ethanol [CAS 64-17-5]

LD50 orally [rat] > 7060 mg / kg

LD50 inhalation [rat] > 2000 ppm/10h

LD50 inhalation [mouse] 39/mg/m³/4h

Irritation/ corrosivity:

Skin: Based on available information, classification criteria are not met.

Eyes: Causes serious eye irritation

Respiratory or skin sensitisation

Based on available information, classification criteria are not met.

Germ cell mutagenicity

Based on available information, classification criteria are not met.

Carcinogenicity

Based on available information, classification criteria are not met.

Reproductive toxicity

Based on available information, classification criteria are not met.

Specific target organ toxicity - single exposure

Based on available information, classification criteria are not met.

Specific target organ toxicity - repeated exposure

Based on available information, classification criteria are not met.

Aspiration hazard

SAFETY DATA SHEET

in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29st, 2015)

Revision:	30.03.2020
VERSION:	1.0 EN

Based on available information, classification criteria are not met.

12 SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

In order to minimise long term global pollution consideration should be given to:

- Reduction in consumption of disposable products and packaging.
- Participation in recycling activities

ethanol [CAS 64-17-5]

toxicity to fish: LC50 1 300 mg / l / 96h / Salmo gairdneri

toxicity to fish: LC50 7,000-9,000 mg / l / 96h / Gobio gobio

toxicity to crustaceans: EC50 7 800 mg / l Daphnia magna

toxicity to bacteria: IC50 6 500 mg / l Pseudomonas putida

toxicity to algae: EC50 5,000 mg / l Scenedesmus quadricauda

toxicity to algae: EC50 1 450 mg / l Microcystis aeruginosa

12.2 Persistence and degradability

The product is expected to be biodegradable

12.3 Bioaccumulative potential

Not expected to bioaccumulate

12.4 Mobility in soil

Product mobile in water and soil. Mobility of components of the mixture depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. There should be considered the possibility of other harmful effects of the individual components of the mixture on the environment. (eg. the ability of disrupting endocrine, the impact of global warming potential).

13 SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal methods for the product: dispose in accordance with applicable regulations. Do not empty into drains. Residues stored in sealed, steel containers. Wastes classify as hazardous waste.

Disposal methods for used packing: recycling or neutralizing should be done according to obligatory regulations for waste. Only completely emptied packaging can be recycled. Do not mix with other waste.

Legal basis: Directive 2008/98/EC, 94/62/EC.

14 SECTION 14: TRANSPORT INFORMATION

This product is packed in accordance with the Limited Quantity Provisions ADR and IMDG.



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Revision:	30.03.2020
VERSION:	1.0 EN

14.1 UN number

ADR : 1993

IMDG:1993

IATA :1993

14.2 UN proper shipping name

ADR: FLAMMABLE LIQUID, N.O.S. (Ethanol]

IMGD: FLAMMABLE LIQUID, N.O.S. (Ethanol]

IATA: FLAMMABLE LIQUID, N.O.S. (Ethanol]

14.3 Transport hazard class (es)

ADR/IMGD/IATA: 3

Classification Code: F1

14.4 Packing group

ADR/IMGD/IATA: II

14.5 Environmental hazards

This product is not a threat to the environment

14.6 Special precautions for user

ADR Regulated

Tunnel restriction code: D/E

Transport category: 2 limited 333 kg

Limited Quantity: 1 L

(IMDG):

Hazard Class 3

Packing Group II

Limited quantities 1L

Stowage and Segregation: Category B.

EmS-No: F-E, S-D

Special Provisions 274

Description: UN1993, FLAMMABLE LIQUID, N.O.S.[Ethanol], 3, II, (13°C.) Ltd. Qty.

(IATA)

UN/ID no UN 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S.[Ethanol]

Hazard Class 3

Packing Group II

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Inapplicable

15 SECTION 15: REGULATORY INFORMATION

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

Other legislation:

1. **1907/2006/EC** Regulation on 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
2. **1272/2008/EC** of the Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures - amending and repealing Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006.

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

3. **2018/669/UE** Commission Regulation (EU) 2018/669 of 16 April 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
 4. **790/2009/EC** of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
 5. **2008/98/EC** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
 6. **94/62/EC** Commission Directive 2013/2/EU of 7 February 2013; amending Annex I to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste
 7. **2015/830/EU** Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
 8. **2013/10/EU** Commission Directive of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures Text with EEA relevance
- 15.2 **Chemical safety assessment**
The supplier has not assessed chemical safety It is not required for the mixture.

16 SECTION 16: OTHER INFORMATION

Other sources of information:

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks. Non-applicable

The information above is based on the currently available data concerning the product and the experience and knowledge in this field of the producer.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. **PHU HURTOWNIA GAZA JAROSLAW CHRASTEK** shall not be held liable for any damage resulting from handling or from contact with the above product

A person making a card::	mgr Małgorzata Krenke	Calculation method
	„Feed Reach Consulting” www.frc.com.pl	

Classification and procedure used to classify the mixture in accordance with Regulation (EC) 1272/2008 [CLP]	
Flam. Liq. 2	H225 flash-point
Eye Irrit. 2	H319 calculation method

H (hazard) phrases specified in point 2 and 3 hereof:

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

H225	Highly flammable liquid and vapour
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction
H412	Harmful to aquatic life with long lasting effects
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways.
H302	Harmful if swallowed
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs

Explanation of returns

CEN	European Committee for Standardisation
C&L	Classification and Labelling
CLP	Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008
CAS	Chemical Abstracts Service number
COM	European Commission
CMR	Carcinogen, Mutagen, or Reproductive Toxicant
CSA	Chemical Safety Assessment
CSR C	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparation Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
EC ₅₀	Half maximal effective concentration
ECB	European Chemicals Bureau Europejskie
ECHA	European Chemicals Agency
EC	Number EINECS and ELINCS Number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
EN	European Standard
EU	European Union
GHS	Globally Harmonized System
IC ₅₀	Half maximal inhibitory concentration
IUCLID	International Uniform Chemical Information Database
IUPAC	International Union for Pure Applied Chemistry
LC ₅₀	Lethal concentration, 50 %
LD ₅₀	Median Lethal Dose
MSDS	Material Safety Data Sheet
PBT	Persistent, Bioaccumulative and Toxic substance
PEC	PEC Predicted Effect Concentration
PNEC(s)	Predicted No Effect Concentration(s)
PPE	Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No

SAFETY DATA SHEET

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Revision:	30.03.2020
VERSION:	1.0 EN

	1907/2006
SDS	Safety Data Sheet
SIEF	Substance Information Exchange Forum
STOT	Specific Target Organ Toxicity
(STOT) RE	Repeated Exposure
(STOT) SE	Single Exposure
SVHC	Substances of Very High Concern
vPvB	Very Persistent and Very Bioaccumulative

Training

Prior to working with the product you should be familiar with safety rules for handling the chemicals, in particular take proper workplace training.

People associated with the transport of hazardous materials in accordance with ADR should be adequately trained to perform their duties (general training, bench and safety).