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

1.1. Product ID

Trade name: **ACID FLÜSSIG**

Contains: formic acid, propionic acid, lactic acid.

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

Identified uses: Concentrated acidifying preparation and preservative for feed mixtures and milk substitutes for all animal species.

Uses advised against: not specified.

1.3. Details of the supplier of the safety data sheet

Ezinger GmbH
 Unterpramau 1
 A-4775 Taufkirchen/Pram

T +43 7719 7517
 F +43 7719 8839

1.4. Emergency telephone number

112

Emergency telephone number in Poland (open from 8:00 a.m. to 4:00 p.m.): +48 24 337 13 00

Emergency telephone: + 48 58 349 28 31, + 48 12 646 87 06, + 48 61 848 10 11, + 48 22 619 66 54 ext. 1240 Poison Control Centers, Centers and Offices.

SECTION 2: Hazards identification

2.1. Classification of the mixture - in accordance with Regulation (EC) No. 1272/2008

Physicochemical hazards

The product is not classified as hazardous.

Health hazards

Skin Irrit. 2 Skin corrosion / irritation, cat. 1B H314 Powoduje poważne oparzenia skóry i uszkodzenie oczu

Eye Dam.Serious eye damage / eye irritation, Cat 1 H318 Causes serious eye damage

Acute Tox. 4 Acute toxicity (routes of exposure: oral, inhalation), cat.4 H302 + H332 Harmful if swallowed or if inhaled


STOT SE 3 Specific target organ toxicity - single exposure, category 3 H335 May cause respiratory irritation

Environmental hazards

The mixture is not classified as hazardous.

Harmful effects on human health:

The product is locally corrosive. May cause burns to the skin, conjunctiva and cornea of the eye. Irritation of the mucous membranes and respiratory system characterized by scratching in the throat and coughing may occur. If swallowed, there is a risk of burns to the mouth, throat, gastrointestinal tract and perforation of the stomach walls. Symptoms: nausea, vomiting, severe pain.

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2.2. Label elements - according to Regulation (EC) No. 1272/2008



Signal word: **DANGER**

Hazard statements:

H314 Causes severe skin burns and eye damage
H302 + H332 Harmful if swallowed or if inhaled
H335 May cause respiratory irritation
EUH071 Corrosive to the respiratory tract


Precautionary Statements:

P260 - Do not breathe vapors of spray
P280 - Wear protective gloves / protective clothing / eye protection / face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304 + P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents / container to companies having appropriate permissions.

2.3. Other dangers








The product does not meet the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.
The substance in the mixture: formic acid (CAS 64-18-6) is assessed as endocrine disrupting agent.


SECTION 3: Composition / information on ingredients

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3.2. Mixture

ACID FLÜSSIG

Substance name and registration number	INDEX No	CAS No	We No	Mass participation in %	Classification in accordance with Regulation (EC) No. 1272/2008
Formic acid 85% REACH registration: 01-2119491174-37-XXXX	607-001-00-0	64-18-6	200-579-1	50-59	Skin Corr. 1B H314 Eye Dam 1 H318 Acute Tox 3 H331 Acute Tox 4 H302  Specific concentration limits: Eye Irrit. 2; H319: 2% ≤ C <10% Skin Corr. 1A; H314: C ≥ 90% Skin Corr. 1B; H314: 10% ≤ C <90% Skin Irrit. 2; H315: 2% ≤ C <10%
Lactic acid 80% REACH registration number: 01-2119474164-39-XXXX	-	79-33-4	201-196-2	5-8	Skin Corr. 1C H314 Eye Dam. 1 H318 
Citric acid REACH registration number: 01-2119457026-42-XXXX		5949-29-1	5949-29-1	1-2	Eye Irrit. 2 H319 
Kwas sorbowy Nr rejestracji REACH: 01-2119950330-49-XXXX		110-44-1	203-768-7	2-4	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 
Propionic acid REACH registration number: 01-2119486971-24-XXXX	607-089-00-0	79-09-4	201-176-3	15-18	Skin Corr. 1B H314 STOT SE 3 H335 Flam. Liq. 3 H226    Specyficzne stężenia graniczne: Eye Irrit. 2 H319 10% ≤ C ≤ 25% STOT SE 3 H335 C ≥ 10% Skin Corr 1B H314 C ≥ 25

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					Skin Irrit 2 H315 10% ≤ C ≤ 25%
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The remaining components, due to their concentration in the mixture, do not need to be included in the classification or do not contain hazardous parameters or are not components that require monitoring.

The full text of the H-phrases is given in section 16 of the Safety Data Sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of contact with the product causing indisposition, call the professional health service immediately. Show the doctor the labeling from the product safety data sheet. Inform the doctor about first aid provided to the injured person.

Inhalation: Remove the injured person from the exposure site, place them in a comfortable reclining or sitting position, keep them calm, protect against heat loss. If necessary, call a doctor.

Skin contact: Remove contaminated clothing and rinse skin thoroughly with lukewarm running water.

Eye contact: Rinse immediately with plenty of cool water, preferably running water, for at least 15 minutes. Remove contact lenses. Avoid strong stream of water because of the risk of mechanical damage to the cornea. If irritation persists, consult an ophthalmologist.

Alimentary tract: If a large amount is swallowed, do not induce vomiting. Rinse mouth with plenty of water. In case of indisposition, consult a doctor.

4.2. The most important acute and delayed symptoms and effects of exposure

May cause irritation of the skin, conjunctiva and cornea of the eye. If swallowed, there is a risk of irritation to the mouth, throat and gastrointestinal tract.

4.3. Indication of any immediate medical aid and special treatment of the sufferer

The workplace should be equipped with a shower and an eyewash station.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: dry powder, foams, water spray, carbon dioxide.

Unsuitable extinguishing media: do not use a solid stream of water.


5.2. Special hazards related to the substance or mixture

Under conditions resulting in incomplete combustion, the hazardous gases produced may include: carbon monoxide (CO) and / or carbon dioxide (CO₂).

5.3. Information for firefighters

Put on gas-tight protective clothing and breathing apparatus independent of the ambient air. Containers not covered by fire, exposed to fire, cool with dispersed stream of water, if possible remove them from the hazard area.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear protective clothing made of natural materials (cotton) or synthetic fibers, gloves made of nitrile rubber (thickness 0.4 mm, breakthrough time > 480 min), chloroprene rubber (thickness 0.5 mm, breakthrough time > 480 min), polyvinyl chloride (thickness 0.7 mm), breakthrough time > 480 min). Use goggles protecting against vapors. Do not drink, eat or smoke while using the product.

Provide adequate general and local ventilation. Remove unsecured persons from the affected area. Avoid direct contact with the mixture. Avoid inhalation.

For people giving help

Protective clothing made of coated materials (e.g. Viton, Butyl rubber or Hypalon).

6.2. Environmental precautions

Do not allow products to reach the sewage system, ground water, soil and open water courses.

Use dams / barriers to prevent the spilled product from spreading. In case of water contamination, notify appropriate authorities.

6.3. Methods and materials preventing the spread of contamination and used for removing contamination

Secure the drains. If possible, collect (e.g. with an industrial vacuum cleaner), avoiding raising vapors. Place the damaged packaging in a replacement packaging. Collect small amounts mechanically, transfer to tightly closed containers and transfer for utilization or recovery. Rinse contaminated surfaces with water.

6.4. Reference to other sections

Individual protection measures - section 8

Waste treatment - section 13.1

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide adequate ventilation. Open and handle containers with care. It is advisable to take precautions to avoid skin contact when working with the substance and eyes. Do not inhale. Prevent from entering the sewage system and surface waters and groundwater and soil.

Industrial hygiene:

- provide adequate ventilation during work (general and local exhaust ventilation)
- provide a place to rinse eyes in case of eye contamination
- immediately take off and clean clothes contaminated with the product
- wash your hands with soap and water before eating, smoking and after finishing work
- the usual precautionary measures are to be adhered to when handling chemicals

7.2. Conditions for safe storage, including any incompatibilities


Store in original, properly labeled, tightly closed packages, in a cool, dry, well-ventilated storage room. Protect against frost.

7.3. Specific and use

No information on other uses.

SECTION 8: Exposure controls / personal protection

8.1. Parametry dotyczące kontroli

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8.1.1 NDS values for Poland - according to the Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286 with as amended).

Substance	CAS No	NDS	NDSch
Formic acid	64-18-6	5 mg/m ³	15 mg/m ³
Propionic acid	79-09-4	30 mg/m ³	45 mg/m ³
Lactic acid	79-33-4	nie ustalono	nie ustalono
Citric acid	5949-29-1	nie ustalono	nie ustalono
Sorbic acid	110-44-1	nie ustalono	nie ustalono

8.1.2 Derived no effect level (DNEL)

8.1.3 Predicted No Effect Concentration (PNEC)

Section	Formic acid	Propionic acid	Sorbic acid
Sea water	0,2 mg/l	0,05 mg/l	-
Periodic release	1 mg/l	5 mg/l	-
Sewage treatment plant	7,2 mg/l	5 mg/l	10 mg/kg
Sediment (fresh water)	13,4 mg/kg	1,86 mg/kg	0,465 mg/kg
Sediment (sea water)	1,34 mg/kg	0,186 mg/kg	-
Soil	1,5 mg/kg	0,125 mg/kg	5 mg/kg
Fresh water <input type="checkbox"/>	2 mg/l	0,5 mg/l	0,129 mg/l


Recommended monitoring procedures

Procedures for monitoring concentrations of hazardous components in the air and procedures for monitoring air purity in the workplace should be applied - if available and justified at a given position - in accordance with the relevant Polish or European Standards, taking into account the conditions prevailing at the site of exposure, and appropriate measurement methodology adapted to the conditions work. The mode, type and frequency of tests and measurements should meet the requirements of the Regulation of the Minister of Health of February 2, 2011 (Journal of Laws 2011 No. 33, item 166).

8.2. Exposure controls

Appropriate engineering controls

Necessary local exhaust ventilation and general ventilation of the room. Local ventilation sampling holes at or below the working plane. General ventilation exhausts in the upper part of the room and at the floor. In case of insufficient ventilation, wear respiratory protection. Provide a shower and an eyewash station.

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Individual protection measures



Eyes, face protection

Use goggles suitable for chemical products, tightly fitting to the face or face protection, protecting against contact with the product.



Hand and body protection

Use protective clothing made of natural materials (cotton) or synthetic fibers, gloves made of nitrile rubber (thickness 0.4 mm, breakthrough time > 480 min), chloroprene rubber (thickness 0.5 mm, breakthrough time > 480 min), polyvinyl chloride (thickness 0.7 mm), breakthrough time > 480 min). It is recommended to change gloves regularly and replace them immediately in the event of any signs of wear, damage (tearing, perforation) or changes in appearance (color, flexibility, shape).

Respiratory protection


In case of significant exposure, use a complete mask with a class P filter (white color).

Environmental exposure controls

Secure against entering the municipal water and sewage system and water courses.

General safety and hygiene tips.

The general rules of industrial hygiene apply. After finishing work, take off contaminated clothes. Wash hands and face before breaks at work. Wash the whole body thoroughly after work. Do not eat, drink or smoke while working.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	<u>Apperance</u>	Liquid
b)	Color	yellow-brown
c)	Odor	undefined
d)	<u>Tempetature</u>	undefined
e)	Melting point	no data
f)	Flammability of materials	no data
g)	Lower and upper flammability limits or upper / lower explosive limits	no data
h)	Flash-point	no data
i)	Self-ignition temperature	no data
j)	Decomposition temperature	undefined
k)	pH	undefined
l)	Kinematic viscosity	undefined
m)	Solubility	no data
n)	Partition coefficient n-octanol / water	no data
o)	Vapor pressure	no data
p)	Density or relative density	no data
q)	Relative vapor density	no data
r)	Characteristics of the particles	no data

9.2 Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

Under the conditions of storage and handling as intended - no reactivity.

10.2. Chemical stability

Stable under the conditions of storage and handling as intended.

10.3. Possibility of hazardous reactions

They are not known.

10.4. Conditions to Avoid


High temperature, humidity.

10.5. Incompatible materials

Strong alkalis, amines, metals and metal oxides.

10.6. Hazardous decomposition products

Under fire conditions and high temperature, carbon oxides (CO, CO₂) may be formed.

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SECTION 11: Toxicological information

The product has not been tested. Data are based on the ingredients of the mixture.

11.1. Information on toxicological effects

a) Acute toxicity of the components of the mixture:

Formic acid

LD50 oral, rat 750 mg / kg (OECD 401)

LC50 inhalation, rat 7.4 mg / l / 4 h (manufacturer's method)

Propionic acid

LD50 inhalation, rat > 19.7 mg / l / lh

LD50 orally, rat > 3,455 mg / kg

LD50 skin, rabbit > 2000 mg / kg

Lactic acid

LD50 orally, rat 3543 mg / kg (EPA OPP 81-1)

LD50 skin, rabbit > 2000 mg / kg (EPA OPP 81-2)

LC50 inhalation, rat > 7.94 mg / l (4 h) (OECD 403)

Citric acid

LD50 Oral, rat 6730 mg / kg

Sorbic acid

LD50 Oral, rat 7360 mg / kg

Mixture

Irritation / corrosion: Skin: corrosive.

Eyes: corrosive.

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

Specific target organ toxicity - single exposure: Based on the available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure: Based on the available data, the classification criteria are not met.

Toxic effect on target organs - single exposure: may cause irritation of the respiratory system.

STOT - repeated exposure: Based on the available data, the classification criteria are not met.

Aspiration hazard: Based on the available data, the classification criteria are not met.


Health effects of local exposure

Inhalation: May cause irritation to the respiratory tract, mucous membranes of the nose and mouth. May cause a burning sensation in the nose and throat, coughing, and a feeling of suffocation.

Eye contact: Corrosive to eyes, causes redness, tearing and pain, and reduces vision, may cause conjunctivitis. Eye contamination causes destruction of the eye protective apparatus, burns of the eyeball - the cornea and deeper structures of the eye.

Skin contact: May be corrosive, causing pain, redness, chemical burn: blisters, necrosis.

Ingestion: May cause irritation of the oropharyngeal mucosa and other parts of the gastrointestinal tract with the risk of damaging the walls.

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Symptoms of chronic poisoning:

Prolonged action may cause irritation of the mucous membranes, reddening of the skin and eyes. Long-term exposure to the mixture may cause conjunctivitis. Repeated or prolonged exposure may cause dermatitis, atrophic changes in the mucosa of the upper respiratory tract and lung damage.

11.2. Information about other threats

It does not contain ingredients that affect the endocrine system.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested. The information is based on the ingredients of the mixture.

Substance toxicity:

Lactic acid:

Formic acid

- fish (*Leuciscus idus*) LC50 (96h) 46 - 100 mg / l
- invertebrates (*Daphnia magna*) LC50 (48h) 120 mg / l
- algae (*Scenedesmus subpicatus*) EC50 (72h) 26.9 mg / l
- bacteria (*Pseudomonas putida*) EC50 (72h) 46.7 mg / l

Propionic acid

- *Leuciscus idus* LC50 > 10,000 mg / l (96 h)
- fish *Pimephales promelas* LC50 > 1000 mg / l (96 h)
- *Cyprinus harpio* LC50 72 mg / l (48 h)
- Water flea *Daphnia magna* EC50 50 mg / l (48 h)
- *Scenedesmus subpicatus* algae EC50 43 mg / l (96 h)
- *Scenedesmus subpicatus* algae EC50 45.8 mg / l (72 h)
- *Pseudomonas putida* bacteria EC50 59.6 mg / l (17 h)

Lactic acid

- fish (*Lepomis macrochirus*) LC50 (96 h) 130 mg / l
- invertebrates (*Daphnia magna*) LC50 (48 h) 130 mg / l
- algae (*Pseudokirchnerella subcapitata*) ErC50 (72 h) 2800 mg / l

Citric acid

- *Leuciscus idus* LC50 fish (72 h) 440 - 760 mg / l
- water fleas: *Daphnia magna* LC50 (72 h) 120 mg / l

Sorbic acid


- fish (species not specified) LC50 (48 h) 1250 mg / l
- *Daphnia* (species not specified) EC50 (24 h) 1500 mg / l

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

Product / ingredient name	LogPow
Propionic acid	0.33
Formic acid	-1.9

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance does not meet the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.

12.6. Endocrine disrupting properties.

The substance in the mixture: formic acid (CAS 64-18-6) is assessed as endocrine disrupting agent.

12.7. Other harmful effects

No data

SEKCJA 13: Waste treatment method

13.1. Waste neutralization methods

Product waste: consult with the product manufacturer about the possibility of waste treatment. If this is not possible, send it to utilization in a facility that has a permit for the collection, transport, recovery or neutralization of waste. Do not empty into drains. Do not dispose of at municipal landfills. Recycling or neutralization of waste product should be carried out in accordance with applicable regulations.

The waste code must be assigned individually at the place of waste generation, depending on the industry and place of use.

Disposal of used packaging: it is forbidden to burn them on the ground.

Legal basis:


Act of 14 December 2012 on waste (Journal of Laws No. 0, item 21).

SEKCJA 14: Transport Information

	ADR/RID	IMO/IMGD	IATA-DG
14.1. UN number (UN number)	1760	1760	R 1760
14.2. Proper shipping name			
14.3. Transport hazard class (es)	-	CORROSIVE LIQUID; I.N.O	-
14.4. Packing group -	-	kw. mrówkowy, kw. propionowy, kw. mlekowy)	-
	8 II	8 II	8 II
14.5. Environmental hazards NO			
14.6. Special precautions for users Not applicable			
14.7. Transport category: II / up to 336 kg net			
Limited quantities (3.4.6): 1 kg			
Bulk transport in accordance with Annex II to the MARPOL Convention and the IBC Code			
Not applicable.			

SECTION 15: Regulatory information

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

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The card was made in accordance with:

Regulation (EC) No. 1907/2006 PeiR of December 18, 2006. on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the 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 as amended. d.

Regulation (EC) No 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) No 1907 / 2006 as amended d.

Commission Regulation (EU) 2015/830 of 28/05/2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) as amended.

Regulation of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws of 2019, item 1995).

Regulation of the Minister of Labor and Social Policy of 12/06/2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286), as amended. d.

Act on substances and their mixtures of February 25, 2011. on chemical substances and their mixtures (Journal of Laws 2020, item 1337).

Act of December 14, 2012 on waste (Journal of Laws 2020, item 797).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalog (Journal of Laws 2020, item 10).

Act of June 13, 2013 on the management of packaging and packaging waste (Journal of Laws of 2020, item 1114).

Classification of dangerous goods in accordance with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace. (Journal of Laws of 2016, item 1488).

Regulation of the Minister of Entrepreneurship and Technology of May 10, 2019, repealing the regulation in

on the essential requirements for personal protective equipment (Journal of Laws 2019, item 966).

European Agreement concerning the International Carriage of Dangerous Goods by Road ADR.

Government Statement of 28 May 2013 on the entry into force of amendments to Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957 (Journal of Laws of 2013, No. 0, item .815)

Act of July 20, 2017 - Water Law (Journal of Laws of 2020, item 310).

15.2. Chemical safety assessment

Not required for the mixture.

SECTION 16: Other information

Explanation of the categories and phrases of hazardous substances contained in the product, used in section 2 and 3. Safety data sheet:

H226 Flammable liquid and vapor

H302 Harmful if swallowed;

H314 Causes severe skin burns and eye damage;


H315 Causes skin irritation;

H318 Causes serious eye damage;

H319 Irritating to eyes,

H331 Toxic if inhaled,

H335 May cause respiratory irritation;

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H373 May cause damage to organs through prolonged or repeated exposure
 Skin Corr. 1A, 1B, 1C Corrosion Hazard Category 1A, 1B, 1C
 Skin Irrit. 2 Skin irritation Hazard category 2
 Eye Irrit. 2 Eye irritation Hazard category 2
 Eye Dam 1 Serious eye damage Hazard category 1
 Flam Liq. 3 Flammable liquid and vapor
 Acute Tox. 3,4 Acute toxicity Category 3, 4
 STOT SE 3 Toxic effects on target organs
 STOT RE 1,2 Specific target organ toxicity - repeated exposure, Hazards 1, 2

Explanation of abbreviations and acronyms used in the safety data sheet:

CAS - Chemical Abstracts Service

EC - number assigned to the chemical in the European List of Existing Commercial Substances or in the European List of Notified Chemical Substances, or in the list of chemical substances mentioned in the publication "No-longer polymers".

NDS - the highest permissible concentration of a substance harmful to health in the work environment

NDSch - the highest momentary permissible concentration of a substance harmful to health in the work environment

The product described in the safety data sheet should be stored and used in accordance with good industrial practice and in accordance with all legal regulations.

The information contained in the safety data sheet, based on the current state of knowledge, is intended to describe the product from the point of view of legal regulations in the field of safety, health and environmental protection. They should not be understood as a guarantee of specific properties.

The user is responsible for creating the conditions for safe use of the product and he is responsible for the consequences of improper use of this product

The mixture was classified using the computational method (additivity formula) on the basis of the content of hazardous components.

Source materials:

Legal provisions cited in section 15;

ECHA - European Chemicals Agency - Substance Information

Material supplier safety data sheets.

Training:


Before starting work with the product, the user should learn the Health and Safety regulations regarding handling chemicals, and in particular, undergo appropriate workplace training. Persons associated with the transport of hazardous materials, in accordance with the ADR agreement, should be properly trained in the scope of their duties (general, on-the-job and safety training).

The safety data sheet was prepared by the company:

ADITECH Limited Liability Company Sp.k.

ul. Spółdzielcza 1 99-300 Kutno

on the basis of the information provided by the manufacturers, the national legislation in force at the time of drawing up the fiche and the knowledge acquired.

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