

Safety Data Sheet

[Prepared in accordance with Commission Regulation (EU) 2020/878(REACH) as amended].

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

1.1. Product identifier

Trade name: **CrackFlex - Component A**

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

Identified uses: Industrial use; injection resin for waterproofing.

Uses advised against: Do not use the product in any other way than those specified in section 1.

1.3. Details of the supplier of the safety data sheet

Supplier: **ResinBau Ltd.**

Address: 3 Frezerów Street, 20-209 Lublin, PL.

Phone/Fax: +48 731 904 000

E-mail address of the person responsible for the safety data sheet: info@resinbau.eu

1.4. Emergency phone number

112 (general emergency phone), 998 (fire department), 999 (medical emergency).

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification of the mixture according to Regulation (EC) No. 1272/2008

Mixture not classified as hazardous according to Regulation (EC) No. 1272/2008. The full wording of all classifications and H-phrases is given in Section 16.

2.2. Signage elements

Supplementary information

EUH210 Safety data sheet available upon request.

2.3. Other risks

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria specified in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The mixture does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Identification numbers	Name of the substance	Content in % by weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3	Ethylene glycol	<0,03	Acute Tox. 4, H302 STOT RE 2, H373 (ingestion)	1
Index: 603-140-00-6 CAS: 111-46-6 EC: 203-872-3	Diethylene glycol	<0,04	Acute Tox. 4, H302	1

Notes:

1 Substance for which exposure limits have been established.

The full wording of all classifications and H-phrases is given in section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If health complaints occur or in case of doubt, notify your doctor and provide him with the information from this safety data sheet.

If it enters the respiratory tract

Immediately stop exposure, move the victim to fresh air.

In case of skin contact

Put away the soiled clothing.

In case of getting into the eyes

Immediately rinse the eyes with a stream of water, dilate the eyelids (even with force); if the victim wears contact lenses, remove them immediately.

In case of ingestion

Rinse out the mouth with clean water. Provide medical attention if ailments occur.

4.2. Most important acute and delayed symptoms and effects of exposure

In case of inhalation into the respiratory tract

They are not anticipated.

In case of skin contact

They are not anticipated.

In case of getting into the eyes

They are not anticipated.

In case of ingestion

They are not anticipated.

4.3. Indication of any immediate medical attention and special treatment of the victim

Symptomatic treatment.

SECTION 5: Fire fighting measures

5.1. Extinguishing agents

Suitable extinguishing media: adapt extinguishing media to the materials stored in the environment.

Unsuitable extinguishing media: no data available

5.2. Special hazards associated with the substance or mixture

During a fire, carbon monoxide and dioxide and other toxic gases can be produced. Inhalation of dangerous products of combustion (pyrolysis) can lead to serious health damage.

5.3. Information for the fire department

Self-contained breathing apparatus with chemical-resistant gloves. Use an insulating oxygen apparatus and a full-body protective suit.

SECTION 6: Handling of unintentional releases into the environment

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions given in sections 7 and 8.

6.2. Environmental precautions

Prevent soil contamination and entry into surface or ground water.

6.3. Methods and materials for preventing the spread of contamination and for the removal of contamination

After removing the product, wash the contaminated area with plenty of water.

6.4. References to other sections

See sections 7., 8. and 13.

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SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

Prevent the formation of gases and vapors in concentrations exceeding the maximum permissible concentrations for the working atmosphere. Use working personal protective equipment in accordance with Section 8. Comply with applicable laws on safety and health protection.

7.2. Conditions for safe storage, including information on any incompatibilities

Store in tightly closed containers in designated cool, dry and well ventilated areas.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protective equipment

8.1. Control parameters

The mixture contains substances for which exposure limits have been established for the working environment.

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.U. 2018 item 1286

Name of substance (ingredients)	Type	Value	Note
Ethylene glycol (CAS: 107-21-1)	NDS	15 mg/m ³	Labeling of substances with notation "Skin" means that absorption of the substance through the skin can be as significant as with inhalation exposure.
	NDSch	50 mg/m ³	
2,2'-Oxydiethanol - inhalable fraction (CAS: 111-46-6)	NDS	10 mg/m ³	Inhalable fraction - the fraction of the aerosol that enters through the nose and mouth, which, when deposited in the respiratory tract, poses a health risk, defined in accordance with PN- EN 481.

European Union Commission

Directive 2000/39/EC

Name of the substance (ingredients)	Type	Value	Note
Ethylene glycol (CAS: 107-21-1)	OEL 8 hours	52 mg/m ³	Leather
	OEL 8 hours	20 ppm	
	OEL 15 minutes	104 mg/m ³	
	OEL 15 minutes	40 ppm	

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8.2. Exposure control

Do not eat, drink or smoke while working. Wash thoroughly after work and before taking a break to eat and rest
Hands with soap and water.

Eye or face protection

It is not needed.

Skin protection

Hand protection: Product-resistant protective gloves. Use protective gloves for prolonged or repeated use.

Respiratory protection

A respirator with a filter against organic vapors, possibly an isolation breathing apparatus when exposure limits of the substance are exceeded or in an environment with difficult ventilation.

Heat hazard

No data available.

Environmental exposure control

Please follow the usual procedures for protecting the work environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State of aggregation:	Liquid
Color:	clear, yellow
Scent:	characteristic
Melting point/freezing point:	nodata
Boiling point or initial temperature	
Boiling point and boiling range:	no data
Flammability of materials:	no data
Lower and upper explosive limits:	no data available
Flash point:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data
pH:	no data
Kinematic viscosity:	no data
Viscosity:	300±50 mPas at 23 °C
Solubility in water:	nodata
Partition coefficient n-octanol/water:	no data
Vapor pressure:	no data
Density or relative density:	1.02 g/cm ³ (23 °C)
Relative vapor density:	no data
Particle characteristics:	no data available

9.2. Other information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

lack of data

10.2. Chemical stability

With proper use and storage, the product is stable.

10.3. Potential for hazardous reactions

Dangerous reactions are not known.

10.4. Conditions to avoid

Under normal use, the product is stable, no decomposition occurs. Protect from flames, sparks, overheating and from frost.

10.5. Incompatible materials

Protect from strong acids and bases, as well as from oxidizing substances.

10.6. Hazardous decomposition products

In the case of ordinary use, they are not formed. At high temperatures and during a fire, they are formed hazardous products, such as carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above exposure limits for the work environment can lead to the development of acute inhalation intoxication, and this depends on the concentration level and exposure time. No toxicological data are available for the mixture.

Acute toxicity

Based on available data, the classification criteria for the mixture are not met.

Crackflex - Component A						
Route of exposure	Parameter	Value	Duration of exposure	Genre	Gender	Determination of values
By oral route	ATE	501900 mg/kg				Calculation of values

Diethylene glycol						
Route of exposure	Parameter	Value	Duration of exposure	Genre	Gender	Determination of values
By oral route	LD50	1120 mg/kg				
Once applied to the skin	LD50	11890 mg/kg				

Ethylene glycol						
Route of exposure	Parameter	Value	Duration of exposure	Genre	Gender	Determination of values
By oral route	LD50	500 mg/kg				
Once applied to the skin	LD50	>3500 mg/kg				

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Corrosive/irritating effect on skin

Based on available data, the classification criteria are not met. Serious eye damage/eye irritation

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

Respiratory or skin sensitization effects

Based on available data, the classification criteria are not met. Mutagenic effect on germ cells

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

Carcinogenic effects

Based on available data, the classification criteria are not met. Reproductive toxicity

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

Toxic effects on target organs - single exposure Based on available data, the classification criteria are not met. Toxic effects on target organs - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard

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

11.2. Information on other risks

The mixture does not contain substances with endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

No data available for the mixture or components. Based on available data, the classification criteria for the mixture are not met.

12.2. Persistence and degradability

No data available for the mixture or components.

12.3. Bioaccumulative potential

No data available for the mixture or components.

12.4. Mobility in soil

No data available for the mixture or components.

12.5. Results of PBT and vPvB assessment

The product does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII, Regulation (EC) No. 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other harmful effects

No data available.

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SECTION 13:Waste treatment

13.1. Waste disposal methods

Danger of contamination of the environment, proceed in accordance with the Act OJ. 2013, item 21 on waste and implementing regulations on waste disposal. Proceed in accordance with applicable regulations on waste disposal. Store unused product and soiled packaging in closed waste collection receptacles and hand over for disposal to a person authorized to dispose of waste (specialized company), which is authorized to conduct such activity. Do not pour unused product into the sewage system. Do not dispose of together with municipal waste. Empty packaging can be energetically used in a waste incinerator or collected in a landfill with the appropriate classification. Perfectly cleaned packaging can be sent for recycling.

Waste management regulations

Law of December 14, 2012 on waste (Journal of Laws of January 8, 2013, item 21). Directive 2008/98/EC of the European Parliament and of the Council of November 19, 2008 on waste. Directive 94/62/EC on packaging and packaging waste. Regulation of the Minister of Environment of December 9, 2014 on the waste catalog (Journal of Laws 2014, item 1923). Regulation of the Minister of Climate of January 2, 2020 on the waste catalog (Journal of Laws 2020, item 10).

SECTION 14:Transport information

14.1. UN number or ID number

Not applicable, the product is not hazardous during transportation.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Threats to the environment

Not applicable.

14.6. Special precautions for users

Cross-reference in sections 4 through 8.

14.7. Maritime transport in bulk in accordance with IMO instruments

Not applicable.

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SECTION 15: Regulatory information

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

Public Health Law.

Announcement by the Speaker of the Sejm of the Republic of Poland of April 19, 2016 on the announcement of the consolidated text of the Law - Environmental Protection Law (Journal of Laws 2016 item 672). Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and 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, as amended. Regulation of the European Parliament and of the Council (EC) No 1272/2008 as amended .

Regulation (EC) No. 649/2012 of the European Parliament and of the Council of July 4, 2012 concerning the export and import of hazardous chemicals.

Law of February 25, 2011 on chemical substances and their mixtures (Journal of Laws 2020, item 2289, 2021, item 2151).

Regulation of the Minister of Health of April 20, 2012 on the labeling of packages of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws No. , item 445).

Regulation of the Minister of Health of August 10, 2012 on the criteria and method of classification of chemical substances and their mixtures (Journal of Laws no., item 1018).

Law of May 28, 2020 on amending the Law on chemical substances and their mixtures and some other laws (Journal of Laws 2020 item 1337)

Announcement of the Speaker of the Sejm of the Republic of Poland of February 1, 2019 on the announcement of the unified text of the Law on Transportation of Dangerous Goods (Journal of Laws 2020, item 154).

Law of January 23, 2020 on amending the Law on Waste and certain other laws. (Journal of Laws of January 23, 2020, item 150).

Law of June 13, 2013 on packaging and packaging waste management (Journal of Laws 2013, item 888).

Ordinance of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment.

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

15.2. Chemical safety assessment

A chemical safety assessment is not required for the mixture.

SECTION 16: Other information

List of hazard statements used in the safety data sheet

H302Harmful if swallowed.

H373May cause damage to organs through prolonged or repeated exposure if swallowed.

List of additional hazard statements used in the safety data sheet

EUH210Safety data sheet available upon request.

Further information important for safety and protection of human health

The product must not - without the special permission of the manufacturer/importer - be used for any other purpose than that stated in section 1. The user is responsible for compliance with all related regulations in the field of protection of the health.

Explanation of abbreviations and acronyms used in the safety data sheet

ADREuropean factor	Agreement concerning the International Carriage of Dangerous Goods by Road BCF
CAS	Bioconcentration factor
CLP	Chemical Abstracts Service
	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures
	EINECSE European Inventory of Existing Commercial Substances
	EmSPlan Emergency Plan
	EuPCSE European product classification system
IATA	International Air Transport Association
IBC	International code for the construction and equipment of ships carrying hazardous chemicals in bulk
ICAO	International Civil Aviation Organization

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International	IMDG International Regulations for the Maritime Transport of Hazardous Materials IMOM Maritime Organization INCI International Nomenclature of Cosmetic Ingredients ISOM International Organization for Standardization IUPAC International Union of Pure and Applied Chemistry
LD50	The lethal dose of a substance at which it can be expected to cause the death of 50% of the population
log Kow	Octanol-water partition coefficient
	LZO Lotne organic compounds
	PAC Maximum allowable concentration
	MPPT Maximum allowable instantaneous concentration
	NDSP Maximum permissible concentration ceiling concentration
OELs	Occupational exposure limits
PBTT	Persistent, bioaccumulative and toxic
	ppm Parts per million
REACH	Registration, evaluation, authorisation and restriction of chemicals applied
	RID Regulation for the international carriage of dangerous goods by rail
EU	European Union
	UNCz the four-digit identification number of the material or object, derived from the "UN Model Regulations"
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
	vPvBB very persistent and very bioaccumulative
	EC Identification code for each substance listed in EINECS
Acute Tox.	Acute Toxicity
STOT	RED Toxic effects on target organs - repeated exposure

Training tips

Familiarize employees with the recommended method of use, mandatory protective measures, first aid and prohibited methods of handling the product.

Recommended restrictions on use

lack of data

Information on the data sources used to compile the safety data sheet

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council (REACH), as amended.

Regulation of the European Parliament and of the Council (EC) No 1272/2008 as amended. Data of the manufacturer of the substance/mixture - data from the registration documentation.

Other data

Classification procedure - calculation method.

Statement

The safety data sheet contains data to ensure safety and health protection at work and protection of the environment. The data provided correspond to the current state of knowledge and experience and are in accordance with applicable laws. They cannot be considered a guarantee of the suitability and usability of the product for a specific application.