MATERIAL SAFETY DATA SHEET (MSDS)

Section 1: Product and company identification

1.1 Product identifier: CORH ACR
UFI: V300-F0AP-C00Q-GP67
1.2 Relevant identified uses of the substance or mixture and uses advised against: A single-component ablative paste, which is an aqueous dispersion of synthetic resin and pigments, in the form of a high-density white colored mass. Intended for professional use in fire protection of mineral wool.

1.3 Dettagli del fornitore della scheda di dati di sicurezza: PIROSISTEMA SP. ZOOul. Ogrodnicza 3A 83-021 Wislina telefono +48 58 342 23 85 (8:00 – 16:00) fax +48 58 342 24 00 e-mail:biuro@pirosystem.pl

1.4 Emergency telephone number
tel. +48 58 342 23 85 (Office hours 8:00 – 16:00)
The emergency numbers of territorial toxicological information see Section 16.

Section 2: Hazards identification

2.1 Classification of the Mixture: The mixture is classified as hazardous.
Classification according to Regulation (EC) No 1272/2008 (CLP)

Health hazards:
None

Physical hazards:
None

Environmental hazards:
Very toxic to aquatic life, category 1 (H400)
Toxic to aquatic life with long-lasting effects, category 2 (H411)

2.2 Label elements:
Symbol(s) of product:

Signal word: Danger
Hazard statements
H400 – Very toxic to aquatic life
H411 – Toxic to aquatic life with long lasting effect
EUH208 – Contains postreaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

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Prevention precautionary statements:
P273 – Avoid release to the environment.
P501 – Dispose of contents/container to an authorized waste disposal facility in accordance with local regulations.
Contains: zinc borate.
2.3 Other Hazards: None.
The mixture does not meet the criteria for PBT and vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006.
The mixture does not contain substances with endocrine-disrupting properties.

Section 3: Composition/Information on ingredients

3.1 Substance
Not applicable.
3.2 Mixture
Mixture description: Mixture of organic and inorganic solvents, fillers, and auxiliary compounds

Hazardous ingredients:

Chemical Name	CAS/EC No.	REACH Registration No:	Classification 1272/2008	Weight%
Tri(2-chloro-1-methylethyl) phosphate	CAS: 13674-84-5 WE: 237-158-7	01-2119447716-31-xxxx	Acute Tox. 4, H302 Eye Irrit. 2, H319	3 – 5
Zinc borate	CAS: 138265-88-0 EC: 235-804-2	01-2119691658-19-xxxx	Repr. 2, H361d Aquatic Acute 1, H400, M=100 Aquatic Chronic 2, H411, M=10	1 – 1,5
2-(2-butoxyethoxy)ethanol	CAS: 112-34-5 EC: 203-961-6	01-2119475104-44-xxxx	Eye Irrit. 2, H319	0,3 – 1,0
Reaction mass of 5-chloro-2-methyl-2-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (C(M)IT/MIT (3:1))	CAS: 55965-84-9 EC: 911-418-6	01-2120764691-48-0000 ATE [oral] = 100 mg/kg ATE [dermal] = 50 mg/kg ATE [inhaled (dusts and mists)] = 0.31 mg/l	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400, M=100 Aquatic Chronic 1, H410, M=100 EUH071	0,0003 – 0,0008*

**SCL: Skin Corr. 1C, H314: C ≥ 0.6%, Skin Irrit. 2, H315: 0.06% ≤ C < 0.6%, Eye Dam. 1, H318: C ≥ 0.6%, Eye Irrit. 2, H319: 0.06% ≤ C < 0.6%, Skin Sens. 1, H317: C ≥ 0.0015%
Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

Section 4: First-aid Measures

4.1 Description of first aid measures

Inhalation:

Move the affected person to fresh air. If dizziness or nausea occurs, seek medical advice if rapid recovery does not occur.

Skin Contact:

Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if skin irritation persists.

Eye Contact:

Remove contact lenses. Rinse eyes with plenty of water for several minutes. Seek medical advice if irritation persists.

Ingestion:

Do not induce vomiting. Rinse mouth with water and drink plenty of water. Seek medical advice if discomfort persists.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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

When symptoms persist or in all cases of doubt seek medical advice. Treatment should be based on the judgment of the attending physician in response to the patient's condition.

Section 5: Fire-fighting Measures

5.1. Extinguishing media
Appropriate extinguishing media:
Carbon dioxide, dry chemical, foam, low-pressure ater or Water Fog.
Extinguishing media which must not be used:
High-pressure water jet.
5.2. Special hazards arising from the substance or mixture:
The mixture is not flammable; however, noxious gases may be emitted as a result of elevated temperatures.
5.3. Advice for firefighters
In the event of fire, wear self-contained breathing apparatus and protective clothing over the entire body.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes. Do not inhale vapors. se protective gloves made of butyl rubber, nitrile rubber, or neoprene. If necessary, use gas-tight protective clothing and respiratory protective equipment.
6.2 Environmental precautions
Prevent spreading and entering into sewage systems and water bodies. Contain or absorb leaking liquid with sand, soil, or other suitable materials. Notify fire services if the substance enters water bodies, sewage systems, or is spilled on soil and vegetation.
6.3 Methods and material for containment and cleaning up
Pick up the preparation mechanically. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, soil, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations. Removal of the spillage should be taken care of by specialist services - such as the fire brigade.
6.4 Reference to other sections
Section 8 - Personal protection.
Section 13 - Disposal Considerations.

Section 7: Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing. Remove any clothing soiled by the product immediately. Use only with adequate ventilation/personal protection. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Keep away from sources of heat and fire.
7.2 Conditions for safe storage, including any incompatibilities
Store the product in the closed original packaging in a dry, well-ventilated place at a temperature not exceeding 30°C, away from direct sunlight. Do not store with strong oxidizers, strong acids, and alkalis.
7.3 Specific end use(s)
No specific advice for end use available.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

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The product complies with: Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

Ingredients with Occupational Exposure Limits:	
2-(2-butoxyethoxy)ethanol	TWA: 67 mg/m^3, STEL: 100 mg/m^3

8.2. Exposure Controls
Appropriate Engineering Controls:
Not necessary.
Individual Protection Measures:
Eye/Face Protection: Avoid contact with eyes.
Skin and body protection: Wear tight-fitting work clothing. Avoid skin contact.
Hand protection: Wash hands after use. Use protective cream to avoid skin dryness.
Respiratory protection: Not necessary.
Environmental Exposure Controls:
Prevent large quantities of the product from entering groundwater, sewage systems, or soil. Follow appropriate regulations when discharging diluted product solutions into the sewage system.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	viscous liquid
Color:	white
Odor:	specific
Melting point / freezing point (°C):	no data available, not tested
Boiling point/range (°C):	no data available, not tested
Flammability:	not applicable, not flammable
Upper/lower explosive limits:	not applicable, not flammable
Flash Point (°C)	not applicable, not flammable
Auto-ignition temperature(°C):	not applicable, not flammable
Decomposition temperature(°C):	not applicable, not flammable
pH (20°C):	not applicable
Kinematic viscosity:	no data available, not tested
Solubility:	soluble in water
Partition coefficient (n-octanol/water):	no data available, not tested
Vapor pressure (20°C):	no data available, not tested
Density (20°C):	1,55 g/cm^3
Relative vapor density:	no data available, not tested
Particle characteristics:	not applicable, liquid

9.2 Other Information
None.

Section 10: Stability and reactivity

10.1 Reactivity

The mixture is not chemically reactive under normal conditions.
10.2. Chemical stability
The mixture is chemically stable under normal use and storage conditions.
10.3. Possibility of hazardous reactions
None known.
10.4. Conditions to avoid
Avoid direct sunlight and temperatures above 30°C.
10.5. Materials to avoid
Avoid contact with strong oxidizers, strong acids, and alkalis.
10.6. Hazardous decomposition products
Does not decompose when is used according to intended use.

Section 11: Toxicological information

11.1 Information on toxicological effects
a) acute toxicity – based on available data, the classification criteria are not met,
b) skin corrosion/irritation – based on available data, the classification criteria are not met,
c) severe eye damage/irritation – based on available data, the classification criteria are not met,
d) respiratory or skin sensitization – Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction,
e) germ cell mutagenicity– based on available data, the classification criteria are not met,
f) carcinogenicity – based on available data, the classification criteria are not met,
g) reproductive toxicity – based on available data, the classification criteria are not met,
h) STOT-single exposure – based on available data, the classification criteria are not met,
i) STOT-Repeated Exposure – based on available data, the classification criteria are not met,
j) aspiration hazard – based on available data, the classification criteria are not met.
Acute toxicity values:
Tri(2-chloro-1-methylethyl) phosphate: LD50 (rate, oral): 800 mg/kg.
The calculated ATE value for the mixture is greater than 2000 mg/kg.
Routes of exposure: drespiratory tract, skin contact, eye contact, ingestion.
Possible effects resulting from exposure to the mixture through:
Respiratory tract: May cause irritation of the mucous membranes of the respiratory tract.
Skin contact: May cause skin irritation.
Eye contact: May cause irritation and tearing.
Ingestion: May cause irritation of the mouth, esophagus, and mucous membranes of the gastrointestinal tract.
11.2 Informacje o innych zagrożeniach
No data on endocrine-disrupting properties or other health effects beyond those listed in Section 11.1.

Section 12: Ecological Information

12.1 Toxicity
No experimental data available for the mixture.
Classification based on the content of hazardous substances:
Very toxic to aquatic life.
Toxic to aquatic life with long-lasting effects.
Zinc Borate:

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Product	Test	Result	Genre	Exposure
Zinc	Invertebrates	EC50 0,147 mg/l (Zn)	Ceriodaphnia dubia	Freshwater - Acute
	Fish	LC50 0,169 mg/l (Zn)	Oncorhynchus mykiss	Freshwater - Acute
	Algae	LC50 0,136 mg/l (Zn)	Pseudokirchneriella subcapitata	Freshwater - Acute
	Invertebrates	NOEC 0,037 mg/l (Zn)	Ceriodaphnia dubia	Freshwater - Chronic
	Fish	NOEC 0,044 mg/l (Zn)	Jordanella floriadae	Freshwater - Chronic
	Algae	NOEC 0,019 mg/l (Zn)	Pseudokirchneriella subcapitata	Freshwater - Chronic
Boron	Algae	EC50 52,4 mg/l (B)	Pseudokirchneriella subcapitata	Freshwater - Acute
	Invertebrates	LC50 91 mg/l (B)	Ceriodaphnia dubia	Freshwater - Acute
	Fish	LC50 79,7 mg/l (B)	Pimephales promelas	Freshwater - Acute
	Fish	NOEC 6,4 mg/l (B)	Brachydanio regio	Freshwater - Chronic
	Invertebrates	NOEC 14,2 mg/l (B)	Daphnia magna	Freshwater - Chronic

12.2 Persistence and degradability
No experimental data available.
12.3 Bioaccumulative potential
No data available.
12.4 Mobility in soil
The mixture is water-soluble and may spread in the aquatic environment and soil.
12.5 Results of PBT and vPvB Assessment
The mixture does not contain substances classified as PBT or vPvB
12.6. Endocrine-Disrupting Properties
No data available.
12.7. Other adverse effects
No further relevant information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods
Disposal should be carried out by specialized companies. The method of disposal should be agreed upon with the appropriate regional environmental protection department.
According to the: Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives.
Recommendations for the mixture: Dispose of in accordance with applicable local regulations. Store residues in original containers. Do not dispose of in sewage systems. Destroy residues by incineration in designated incineration plants. Assign waste code at the place of its generation. Recommendations for used packaging: Carry out recovery/recycling/disposal of packaging waste in accordance with applicable local regulations. Only completely emptied containers can be sent for recycling. Contaminated packaging should be treated as hazardous waste.

Section 14: Transport information

Transport ADR/RID/ADN/ADNR
14.1. UN number: UN 3082
14.2. UN proper shipping name UN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Borate)
14.3. Transport hazard class(es): 9
14.4. Packing Group: III
14.5. Environmental hazards: Environmentally hazardous
14.6. Special precautions for user: See Sections 6 and 8
14.7. Transport in bulk according to IMO instruments: No data available.

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Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation, and Restriction of Chemicals REACH) 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 (OJ L 396, 30.12.2006, as amended),
- Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH),
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling, and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, amending Regulation (EC) No 1907/2006, (OJ L 353, 31.12.2008, as amended)
- Regulation (EC) No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (OJ L 204, 31.07.2008),
- Directive 94/62/EC of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste,
- "Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives,
- "Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives,
- Classification of dangerous goods according to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR),
- Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (OJ L 158, 30.4.2004),
- Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work,
- Directive 98/24/EC of the European Parliament and of the Council of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work,
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents, as amended by Commission Regulation (EC) No 551/2009 of 25 June 2009, as amended,
- And other applicable legal acts.

15.2 Chemical Safety Assessment
No data available.

Section 16: Other information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:
H301 Toxic if swallowed
H302 Harmful if swallowed
H310 Fatal in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H318 Causes serious eye damage

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H319 Causes serious eye irritation
H330 Fatal if inhaled
H361d Suspected of damaging the unborn child
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
Acute Tox. 3 H301 – Acute oral toxicity category 3
Acute Tox. 4 H302 – Acute oral toxicity category 4
Acute Tox. 2 H310 – Acute dermal toxicity category 2
Acute Tox. 2 H330 – Acute respiratory toxicity category 2
Aquatic Acute 1, H400 – Harmful to water category 1
Aquatic Chronic 1 H410 – Harmful to water category 1
Eye Dam. 1 H318 – Severe eye damage category 1
Eye Irrit. 2 H319 – Eye irritation category 2
Repr. 2, H361fd– Adverse effects on fertility category 2
Skin Corr. 1C H314 – Skin corrosion category 1C
Skin Sens. 1 H317 – Skin sensitisation category 1
The above phrases refer to the components and do not constitute a classification of the mixture.

The classification of the mixture based on a calculation method.

The reason for the change from the previous version is to change the composition of the mixture.

The classification of the mixture has been changed, as well as all the sections of the card related to this.

Note:

1. The safety data sheet for a hazardous product is provided directly to the product distributor without any warranty or guarantee as to the completeness and detail of all information or recommendations contained therein.
2. The sheet was prepared by SpecChem Consulting, ul. Śląska 12/13, 70-432 Szczecin, phone: 606-874-162, email: biuro@specchem.eu, http://www.specchem.eu, represented by: Krzysztof Kapczyński, based on information obtained from the product manufacturer and materials from their own database.
3. The information contained in this sheet represents the current state of knowledge and experience regarding the safe use of the product.

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