


Section 1: Identification	
Product Name	Arg-C Zero
Product Number	KPL0146
Recommended Use	Laboratory reagent, for research use only.
Supplier	KPL ApS
Address	Tagensvej 116-523 Copenhagen N, Denmark 2200
Phone Number	+4522679791
Emergency Phone Number	+4522679791
Section 2: Hazard(s) Identification	
Classification	According to Regulation (EC) No 1272/2008 [CLP] Skin Sens. 1, H317 Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200.
Label Elements	Labelling according to Regulation (EC) No 1272/2008 
Signal word	Danger
Hazard Statement(s)	H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statement(s)	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
Other hazards	None
Section 3: Composition/information on ingredients	
Chemical characterization	Mixture
Description	
Dangerous components	None in reportable quantities

Name	CAS No.	EC / List no.	Composition
Gingipain R2 Protease	N.A.	N.A.	95 - 100%
4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid (HEPES)	7365-45-9	230-907-9	0.01 - 5%
Sodium Chloride	7647-14-5	231-598-3	0.01 - 5%
Trehalose	99-20-7	202-739-6	0.01 - 5%



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Section 4: First-Aid measures	
Eye Contact	Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Skin Contact	Wash off with soap and plenty of water. Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Inhalation	Move to fresh air. Seek medical attention if discomfort occurs.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if discomfort occurs.
Section 5: Fire-fighting measures	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	No data available
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Section 6: Accidental Release Measures	
Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas.
Environmental Precautions	Do not let product enter drains.
Methods for Cleaning Up	Soak up with inert absorbent material and dispose of as hazardous waste.
Section 7: Handling and Storage	
Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place, protected from light.
Recommended Storage Temperature	-20°C
Section 8: Exposure Controls/Personal Protection	
Exposure Limits	Contains no substances with occupational exposure limit values.
Engineering Controls	Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment	Eye/Face Protection: Safety glasses with side-shields. Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Body Protection: Impervious clothing. Respiratory Protection: Not required under normal use conditions.



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Section 9: Physical and Chemical Properties	
Appearance	Clear, colorless liquid or white lyophilized powder.
Odor	Not determined.
pH	7.5 - 9
Melting Point	Not determined.
Freezing Point	Not determined.
Boiling Point	Not determined.
Flash Point	Not applicable.
Evaporation Rate:	Not determined.
Flammability	Product is not flammable.
Vapor Pressure	Not determined.
Solubility	Fully miscible in water.
Section 10: Stability and Reactivity	
Reactivity	No data available.
Chemical Stability	Stable under recommended storage conditions
Conditions to Avoid	Extreme temperatures.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	None under normal conditions.
Section 11: Toxicological Information	
Acute Toxicity	No data available.
Skin Corrosion/Irritation	No data available.
Serious Eye Damage/Irritation	No data available.
Respiratory or Skin Sensitization	No data available.
Germ Cell Mutagenicity	No data available.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, or OSHA.
Section 12: Ecological information	
Ecotoxicity	No data available.
Persistence and Degradability	Expected to be readily biodegradable.
Bioaccumulative Potential	Not expected to bioaccumulate.
Mobility in Soil	No data available.
Results of PBT and vPvB assessment	PRT: Not applicable. vPvB: Not applicable.
Section 13: Disposable Considerations	
Waste treatment methods	Dispose of in accordance with local regulations.



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Section 14: Transport Information	
UN number DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA	Not applicable
Packing group DOT, ADR, ADN, IMDG, IATA	Not applicable.
Environmental hazards	No
Section 15: Regulatory Information	
Regulation/Inventory	Status
United States	
TSCA (Toxic Substances Control Act)	Substance not listed.
SARA 302 Extremely Hazardous Substances	Product does not contain any chemicals subject to reporting.
SARA 311/312 Hazardous Chemicals	Not classified as hazardous.
SARA 313 Toxic Release Inventory	Product does not contain chemicals subject to reporting.
CERCLA Hazardous Substances	Product not subject to reporting under CERCLA.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention	This product is not regulated as hazardous air pollutants under CAA.
Clean Water Act (CWA) Section 311 Hazardous Substances	Product is not regulated under CWA.
California Proposition 65	This product does not contain chemicals known to the State of California to cause cancer or reproductive harm.
European Union	
REACH Registration	Substance exempt or not listed under REACH.
REACH Substances of Very High Concern (SVHC)	Product does not contain SVHC.
CLP Regulation (EC) No 1272/2008	Substance is not classified as hazardous under CLP.
RoHS Directive 2011/65/EU	Product is compliant with RoHS.
Biocidal Products Regulation (BPR, Regulation (EU) 528/2012)	Product is not considered a biocidal product.
Seveso III Directive 2012/18/EU	Not subject to Seveso III.
EU Detergents Regulation (EC) No 648/2004	Not applicable under this regulation.
International	
Chemical Weapons Convention (CWC)	Not listed as a scheduled chemical.
Rotterdam Convention (PIC)	Substance not listed.
Stockholm Convention (POPs)	Not subject to POPs restrictions.
Section 16: Other Information	
Date of last revision	20/11/2004
Revision number	1

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.