

	SAF	TY DATA SHEET				
	according to Regulation	on (EC) No 1907/2006 (REACH) as amended				
	Ammonium perc	hlorate water solution 1 mol/l				
	ion date 20th December 201	•				
Revis	ion date 13th December 202	2 Version 3.0				
SECT	ION 1: Identification of the substance/m	ixture and of the company/undertaking				
1.1.	Product identifier	Ammonium perchlorate water solution 1 mol/l				
	Substance / mixture	mixture				
	Other mixture names					
	Ammonium perchlorate 1 mol/l soluti	on				
1.2.		ce or mixture and uses advised against				
	Mixture's intended use					
		aboratory synthesis, industrial applications.				
	Mixture uses advised against					
	The product should not be used in ways oth					
1.3.	Details of the supplier of the safety dat	a sheet				
	Supplier	¥				
	Name or trade name	Ing. Petr Švec - PENTA s.r.o.				
	Address	Radiová 1122/1, Praha 10, 102 00				
		Czech Republic				
	Identification number (CRN)	02096013				
	VAT Reg No	CZ02096013				
	Phone	+420 226 060 681				
	E-mail	info@pentachemicals.eu				
	Web address	www.pentachemicals.eu				
	Competent person responsible for the s	Ing. Petr Švec - PENTA s.r.o.				
	E-mail	info@pentachemicals.eu				
1.4.	E-mail Emergency telephone number	intowpentachemicals.eu				
	European emergency number: 112					
	European emergency number. 112					

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

Ox. Liq. 3, H272 Eye Irrit. 2, H319 STOT RE 2, H373 (thyroid gland)

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

May intensify fire; oxidiser.

Most serious adverse effects on human health and the environment

May cause damage to thyroid gland through prolonged or repeated exposure. Causes serious eye irritation.

2.2. Label elements

Hazard pictogram





SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

	Ammonium perchlorate water solution 1 mol/l						
Creation date	20th December 2016						
Revision date	13th December 2022	Version	3.0				
Hazardous su	Ibstances						
ammonium pe	rchlorate						
Hazard state	ments						
H272	May intensify fire; o	oxidiser.					
H319	Causes serious eye	irritation.					
H373	May cause damage	to thyroid gland through	prolonged or repeated exposure.				
Precautionar	y statements						
P220	Keep away from clo	thing and other combust	ible materials.				

2.3. Other hazards

P305+P351+P338

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

lenses, if present and easy to do. Continue rinsing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 017-009-00-0 CAS: 7790-98-9 EC: 232-235-1	ammonium perchlorate		Expl. 1.1, H201 Ox. Sol. 1, H271 Eye Irrit. 2, H319 STOT RE 2, H373 (thyroid gland)	1, 2

Notes

- 1 Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

	Ammonium perchlora	te water solu	tion 1 mol/l	
Creation date	20th December 2016			
Revision date	13th December 2022	Version	3.0	

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled Cough, headache. If on skin Not expected. If in eyes Causes serious eye irritation. If swallowed Irritation, nausea.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. May intensify fire; oxidiser. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

Ammonium perchlorate water solution 1 mol/l				
Creation date	20th December 2016			
Revision date	13th December 2022	Version	3.0	

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Take any precaution to avoid mixing with combustibles. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

Storage class

12 - Other non-combustible liquids

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter against organic vapours in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	•
Physical state	liquid
Colour	colourless
Odour	data not available
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	5,0 (undiluted)
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,0530 g/cm ³
Other information	

9.2.



	SAFET	TY DATA SHEET	
	according to Regulation	(EC) No 1907/2006 (REACH)	as amended
	Ammonium perchl	lorate water solut	ion 1 mol/l
	on date 20th December 2016 on date 13th December 2022	Version	3.0
REVISIC		VEISIOII	5.0
	Evaporation rate	data not availab	
	Oxidising properties	May intensify fir	re; oxidiser.
SECTI	ON 10: Stability and reactivity		
10.1.			
	not available		
10.2.	Chemical stability		
	The product is stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
	Unknown.		
10.4.	Conditions to avoid		
	The product is stable and no degradation occ	curs under normal use. Prote	ct against flames, sparks, overheating
4 A F	against frost.		
10.5.	•		
	Protect against strong acids, bases and oxidizi	ing agents.	
	Hazardous decomposition products		
10.0.	Not doveloped upder nermed uses Depression	a autoomaa auch aa cauhan m	
SECTI	Not developed under normal uses. Dangerous high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixtu Acute toxicity	in Regulation (EC) No 12	
SECTI	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixtu Acute toxicity Based on available data the classification crite	in Regulation (EC) No 127	
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SECTI	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixtu Acute toxicity Based on available data the classification crite Skin corrosion/irritation Based on available data the classification crite Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation	i n Regulation (EC) No 12 are. eria are not met. eria are not met.	
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SECTI	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixtur Acute toxicity Based on available data the classification crite Skin corrosion/irritation Based on available data the classification crite Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation Based on available data the classification crite Germ cell mutagenicity Based on available data the classification crite Carcinogenicity Based on available data the classification crite	l in Regulation (EC) No 12 ire. eria are not met. eria are not met. eria are not met.	
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SECTI	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixture Acute toxicity Based on available data the classification criter Skin corrosion/irritation Based on available data the classification criter Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation Based on available data the classification criter Germ cell mutagenicity Based on available data the classification criter Carcinogenicity Based on available data the classification criter Reproductive toxicity Based on available data the classification criter Toxicity for specific target organ - single Based on available data the classification criter	in Regulation (EC) No 122 rre. eria are not met. eria are not met.	
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SECTI	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixtur Acute toxicity Based on available data the classification crite Skin corrosion/irritation Based on available data the classification crite Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation Based on available data the classification crite Germ cell mutagenicity Based on available data the classification crite Carcinogenicity Based on available data the classification crite Reproductive toxicity Based on available data the classification crite Toxicity for specific target organ - single Based on available data the classification crite	I in Regulation (EC) No 12 are. aria are not met. aria are not met. exposure aria are not met. exposure bria are not met. exposure bria are not met. bria are not met.	72/2008
SECTI 11.1.	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixture Acute toxicity Based on available data the classification criter Skin corrosion/irritation Based on available data the classification criter Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation Based on available data the classification criter Germ cell mutagenicity Based on available data the classification criter Carcinogenicity Based on available data the classification criter Reproductive toxicity Based on available data the classification criter Toxicity for specific target organ - singler Based on available data the classification criter Toxicity for specific target organ - repeater May cause damage to thyroid gland through p Aspiration hazard Based on available data the classification criter	I in Regulation (EC) No 12 are. aria are not met. aria are not met. exposure aria are not met. exposure bria are not met. exposure bria are not met. bria are not met.	72/2008
10.6. SECTI 11.1.	high temperature and in fire. CON 11: Toxicological information Information on hazard classes as defined No toxicological data is available for the mixture Acute toxicity Based on available data the classification criter Skin corrosion/irritation Based on available data the classification criter Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation Based on available data the classification criter Germ cell mutagenicity Based on available data the classification criter Carcinogenicity Based on available data the classification criter Reproductive toxicity Based on available data the classification criter Toxicity for specific target organ - singler Based on available data the classification criter Toxicity for specific target organ - repeater May cause damage to thyroid gland through p Aspiration hazard Based on available data the classification criter	I in Regulation (EC) No 122 Ire. Pria are not met. Pria are not met.	72/2008 re.

12.2. Persistence and degradability



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

			1 1 1		
		Ammonium perchlora	te water soluti	on 1 mol/l	
Creatio	on date	20th December 2016			
Revisio	on date	13th December 2022	Version	3.0	
	Data not availal	ble.			
12.3.	Bioaccumulati	ve potential			
	Not available.	-			
12.4.	Mobility in soi	l			
	Not available.				
12.5.	Results of PBT	and vPvB assessment			
		ot contain any substance meeting t No 1907/2006 (REACH) as amende		vB in accordance with the Anne	x XIII of
12.6.	Endocrine disr	upting properties			
	not available				
12.7.	Other adverse	effects			
	Not available.				

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

- UN 3211
- **14.2. UN proper shipping name** PERCHLORATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

14.3. Transport hazard class(es)

5.1 Oxidazing substances

14.4. Packing group

- II substances presenting medium danger
- 14.5. Environmental hazards
- not relevant 14.6. Special precautions for user
 - Reference in the Sections 4 to 8.
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant



	SAFETY	' DATA SHEET		
	according to Regulation (E	C) No 1907/2006 (REACH)	as amended	
A	mmonium perchlo	rate water solut	ion 1 mol/l	
Creation date Revision date	20th December 2016 13th December 2022	Version	3.0	
Additional inform	mation			
Hazard identi	fication No.	50		
UN number		3211		
Classification	code	01		
Safety signs		5.1		
		5.1		
Air transport - I	CAO/IATA			
5 5	structions passenger	550		
	ging instructions	554		
Marine transpor				
EmS (emerge	ency plan)	F-H, S-Q		

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 18th December 2006 concerning the Registration, Evaluation, Authorisation 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. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling 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.



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

Ammonium perchlorate water solution 1 mol/l

Creation date	20th December 2016			
Revision date	13th December 2022	Version	3.0	

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

Restriction	Conditions of restriction
65	1. Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m3) under the test conditions specified in paragraph 4.
	A supplier of a cellulose insulation mixture containing inorganic ammonium salts shall inform the recipient or consumer of the maximum permissible loading rate of the cellulose insulation mixture, expressed in thickness and density.
	A downstream user of a cellulose insulation mixture containing inorganic ammonium salts shall ensure that the maximum permissible loading rate communicated by the supplier is not exceeded.
	2. By way of derogation, paragraph 1 shall not apply to placing on the market of cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles, or to the use those mixtures in the production of cellulose insulation articles.
	3. In the case of a Member State that, on 14 July 2016, has national provisional measures in place that have been authorised by the Commission pursuant to Article 129(2)(a), the provisions of paragraphs 1 and 2 shall apply from that date.
	 4. Compliance with the emission limit specified in the first subparagraph of paragraph 1 shall be demonstrated in accordance with Technical Specification CEN/TS 16516, adapted as follows: (a) the duration of the test shall be at least 14 days instead of 28 days; (b) the ammonia gas emission shall be measured at least once per day throughout the test; (c) the emission limit shall not be reached or exceeded in any measurement taken during the test; (d) the relative humidity shall be 90 % instead of 50 %; (e) an appropriate method to measure the ammonia gas emission shall be used; (f) the loading rate, expressed in thickness and density, shall be recorded during the sampling of the cellulose insulation mixtures or articles to be tested.

15.2. Chemical safety assessment

No chemical safety assessment has been performed for this substance.



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

	Ammonium perchlorate water solution 1 mol/l					
Creation date	20th December 2016					
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Ammonium perchlorate water solution 1 mol/l					
Creation date	20th December 2016				
Revision date	13th December 2022	Version	3.0		

No chemical safety assessment has been performed for this substance.

SECTION 16: Other information

A list of standard risk phrase	es used in the safety data sheet
H201	Explosive; mass explosion hazard.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.
H373	May cause damage to thyroid gland through prolonged or repeated exposure.
Guidelines for safe handling	used in the safety data sheet
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P220	Keep away from clothing and other combustible materials.
Other important information	about human health protection
The product must not be - unle as per the Section 1. The user i	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by
	road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
РВТ	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds



SAFETY DATA SHEET							
according to Regulation (EC) No 1907/2006 (REACH) as amended Ammonium perchlorate water solution 1 mol/l							
vPvB Very Persistent and very Bioaccumulative							
Expl.	Explosive						
Eye Irrit.	Eye irritation						
Ox. Liq.	Oxidising liquid						
Ox. Sol.	Oxidising solid						
STOT RE	Specific target organ toxicity - repeated exposure						
Training guidelines							
Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.							
Recommended restrictions of use							
not available							
Information about data sources used to compile the Safety Data Sheet							
REGULATION (EC) No. 1272/2008 OF THE EUROPE	AN PARLIAMENT AND	OF THE COUNCIL (REACH) as amended. OF THE COUNCIL as amended. Data from				
	er of the substance / mixture, if avai						
	-		s were made in sections 1, 2,4,5,6,13, 15				

Statement

and 16.

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.