

		SAFETY I	DATA SHEET	
	accor	ding to Regulation (EC)	No 1907/2006 (REACH) as	amended
		Picric acid satu	red water solut	ion
		h September 2019		
Revisi	on date 26t	h November 2024	Version	3.0
SECT	ION 1: Identification of the	e substance/mixture a	nd of the company/und	lertaking
1.1.	Product identifier		Picric acid satured	water solution
	Substance / mixture		substance	
	Chemical name		2,4,6-trinitrophence	bl
	CAS number		88-89-1	
	Index number		609-009-00-X	
	EC (EINECS) number		201-865-9	
	Other substance name			
	Picric acid saturated			
1.2.	Relevant identified uses		ixture and uses advised	against
	Substance's intended us			
	Chemical production, analy		ry synthesis, industrial app	plications.
	Substance uses advised	-	the set water water at its Constinue 1	
	The product should not be			L.
1.3.	Details of the supplier of	the safety data sheet		
	Supplier			
	Name or trade name		Ing. Petr Švec - PE	
	Address		Radiová 1122/1, Pr	rana 10, 102 00
	Identification pumber		Czech Republic	
	Identification number	CRN)	02096013	
	VAT Reg No		CZ02096013	
	Phone E-mail		+420 226 060 681	
	Web address		info@pentachemica	
	Competent person respo	ncible for the cafety d	www.pentachemica	als.eu
	Name	disible for the safety d	Ing. Petr Švec - PE	NTAsro
	E-mail		info@pentachemica	
1.4.	Emergency telephone nu	umber	intel@pentachemica	dis.eu
-	European emergency numb			
	ION 2: Hazards identificati Classification of the sub			
2.1.			with Pogulation (EC) No	1272/2008
	Classification of the sub			
	The substance is not classif	ieu as dangerous accord	ing to Regulation (EC) No	12/2/2008.
2.2.	Label elements			
	Precautionary statement	ts		
	P230	Keep wetted with p		
	P501	Dispose of containe	r to according to applicable	e regulations.
2.3.	Other hazards			
	Delegated Regulation (EU)) 2017/2100 or Commi accordance with Annex >	ssion Regulation (EU) 20	with the criteria set out in Commission 18/605. Substance does not meet the 1907/2006 (REACH) as amended. Does



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SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 609-009-00-X CAS: 88-89-1 EC: 201-865-9	substance main component 2,4,6-trinitrophenol		Expl. 1.1, H201 Desen. Expl. 1, H206 Acute Tox. 3, H301+H311+H331	1

Notes

1 A substance for which exposure limits are set.

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 inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes.

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.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled Not expected. If on skin Not expected. If in eyes Not expected. If swallowed Not expected.

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

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media not available

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.



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5.3.		fighters Breathing Apparatus (SCBA) with ch rotective clothing.	emical resistant gloves.	Use a self-contained breat	hing apparatus		
SECT: 6.1.		al release measures autions, protective equipment an	d emergency procedu	ires			

- Follow the instructions in the Sections 7 and 8.
- 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
- After removal of the product, wash the contaminated site with plenty of water.
- **6.4.** Reference to other sections See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. 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.
 Storage temperature min 20 °C, max 35 °C

 7.3. Specific end use(s)
 not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union

Commission Directive 91/322/EEC

Substance name (component)	Туре	Value
2,4,6-trinitrophenol (CAS: 88-89-1)	OEL 8 hours	0,1 mg/m ³

8.2. Exposure controls

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

It is not needed.

Skin protection

When handling in long-term or repeatedly, use protective gloves.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or 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



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	Colour		yellow		
	Odour		without fragrand	e	
	Melting point/fr	eezing point	121-123 °C ((ky	selina pikrová))	
	Boiling point or	initial boiling point and boiling range	data not availab	le	
	Flammability		data not availab	le	
	Lower and uppe	er explosion limit	data not availab	le	
	Flash point		data not availab	le	
	Auto-ignition te	mperature	data not availab	le	
	Decomposition	temperature	data not availab	le	
	pН		data not availab	le	
	Kinematic visco	sity	data not availab	le	
	Solubility in wa	ter	data not availab	le	
	Solubility in fat	5	data not availab	le	
	Partition coeffic	ient n-octanol/water (log value)	log POW: 1.33 (picric acid)	
	Vapour pressur	e	data not availab	le	
	Density and/or	relative density	data not availab	le	
	Relative vapour	density	data not availab	le	
	Particle charact	eristics	data not availab	le	
9.2.	Other informa	tion			
	Ignition temper	ature	300 °C ((kyselin	a pikrová))	
	Vapour density		log POW: 1.33 (kyselina pikrová)	

SECTION 10: Stability and reactivity

10.1. Reactivity

- The substance is non-flammable.
- **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 occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products Not developed under normal uses. Dangerous outcomes such

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the substance.

Acute toxicity

Based on available data the classification criteria are not met.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE	10000 mg/kg				Calculation of value	



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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source	
Dermal	ATE	15000 mg/kg				Calculation of value		
Inhalation (dust/mist)	ATE	25 mg/l				Calculation of value		

2,4,6-trinitrophenol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD50	200 mg/kg		Rat (Rattus norvegicus)			Merck
Intraperitoneally	LD50	56.3 mg/kg		Mouse			Merck
Skin		461.54 mg/kg				Calculation of value	Merck

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.



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endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

No data available for the substance. Based on available data the classification criteria are not met.

12.2. Persistence and degradability

No data available for the substance.

- 12.3. Bioaccumulative potential
 - No data available for the substance.
- 12.4. Mobility in soil

Based on available data the classification criteria are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on available data the classification criteria are not met. Does not contain any PBT or vPvB components. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption in the environment.

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. 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

not subject to transport regulations

- 14.2. UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.



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14.7. Maritime transport in bulk according to IMO instruments

not relevant

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 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).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phr	ases used in the safety data sheet		
H201	Explosive; mass explosion hazard.		
H206	Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced.		
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.		
Guidelines for safe handli	ng used in the safety data sheet		
P230	Keep wetted with pomocí vody.		
P501	Dispose of container to according to applicable regulations.		
Other important informat	ion about human health protection		
	inless specifically approved by the manufacturer/importer - used for purposes other than er is responsible for adherence to all related health protection regulations.		
Key to abbreviations and	acronyms used in the safety data sheet		
Acute Tox.	Acute toxicity		
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		
Desen. Expl.	Desensitised explosives		
EC	Identification code for each substance listed in EINECS		
EINECS	European Inventory of Existing Commercial Chemical Substances		
EmS	Emergency plan		
EU	European Union		
EuPCS	European Product Categorisation System		
Expl.	Explosive		
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		
IMO	International Maritime Organization		
INCI	International Nomenclature of Cosmetic Ingredients		
ISO	International Organization for Standardization		



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IUPAC	International Union	International Union of Pure and Applied Chemistry				
LD50	Lethal dose of a sub population	Lethal dose of a substance in which it can be expected death of 50% of the population				
log Kow	Octanol-water parti	Octanol-water partition coefficient				
OEL	Occupational Expos	Occupational Exposure Limits				
PBT	Persistent, bioaccun	Persistent, bioaccumulative and toxic				
PMT	Persistent, mobile a	Persistent, mobile and toxic				
ppm	Parts per million	Parts per million				
REACH	Registration, Evalua	Registration, Evaluation, Authorisation and Restriction of Chemicals				
RID	Agreement on the t	Agreement on the transport of dangerous goods by rail				
UN	Four-figure identific Model Regulations	Four-figure identification number of the substance or article taken from the UN				
UVCB	Substances of unkn biological materials	Substances of unknown or variable composition, complex reaction products or biological materials				
VOC	Volatile organic com	Volatile organic compounds				
vPvB	Very persistent and	Very persistent and very bioaccumulative				
vPvM	Very persistent and	Very persistent and very mobile				
Training guide	elines					
Inform the pers ways of handlin	sonnel about the recommended ways g the product.	s of use, mandatory pro	ective equipment, first aid:	d and prohibited		

Recommended restrictions of use

not available

Information about 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 (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from Tuesday, 23 August 2022. Changes were made in sections 1, 2, 11, 12, 13, 15 and 16.

More information

Classification procedure - calculation method.

Statement

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.