

		according to Regulation (E	EC) No 1907/2006 (REACH)	as amended		
	Р		nitrate 0,01 mol			
Creat	ion date	12th April 2021	/			
Revis	Revision date 25th April 2022 Version 2.0					
SECT	ION 1: Identification	of the substance/mixtu	re and of the company/u	ndertaking		
1.1.	Product identifier	or the substance, mixtu		r nitrate 0,01 mol/l (N/10)		
	Substance / mixture		substance	, , , , ,		
	Chemical name		silver nitrate			
	CAS number		7761-88-8			
	Index number		047-001-00-2			
	EC (EINECS) number		231-853-9			
	Registration number		01-2119513705	-43-xxxx		
4 3	Delevent identified	uses of the substance o	or mixture and uses advis	ed against		
1.2.	Relevant luentilleu	uses of the substance of	i illixture allu uses auvis	cu agamet		
1.2.	Substance's intend					
1.2.	Substance's intend	ed use		-		
1.2.	Substance's intend Chemical production,	ed use analytical chemistry, labor	ratory synthesis, industrial a	-		
1.2.	Substance's intend Chemical production, Substance uses adv	ed use analytical chemistry, labor vised against		applications.		
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Classification of the substance or mixture Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Ox. Sol. 2, H272 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

Most serious adverse physico-chemical effects

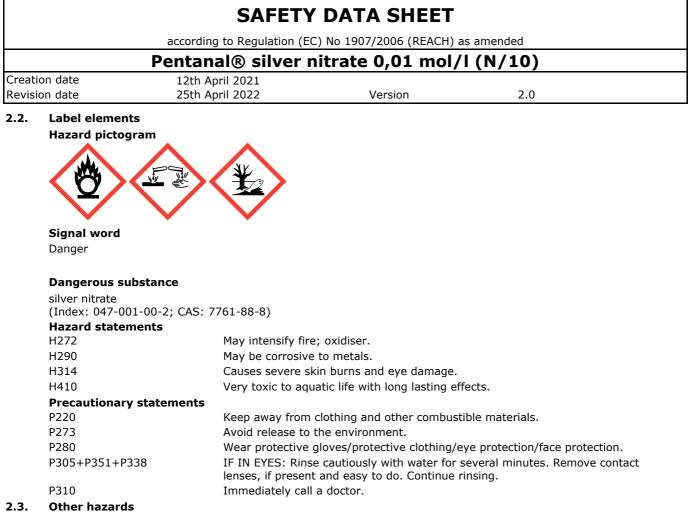
May intensify fire; oxidiser. May be corrosive to metals.

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

penta[©] CHEMICALS UNLIMITED

Safety data sheet



The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

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
	substance main component			
Index: 047-001-00-2 CAS: 7761-88-8 EC: 231-853-9 Registration number: 01-2119513705-43- xxxx	silver nitrate	99	Ox. Sol. 2, H272 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

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



	SAFETY	DATA SHEET			
	according to Regulation (E	C) No 1907/2006 (REACH) a	as amended		
Pentanal® silver nitrate 0,01 mol/l (N/10)					
Creation date	12th April 2021				
Revision date	25th April 2022	Version	2.0		

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. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

If in eyes

Do not rub your eyes – it could lead to mechanical damage of the cornea. 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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

Most important symptoms and effects, both acute and delayed

If inhaled

4.2.

Inhaling dust can cause corrosion of the breathing system.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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.



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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. May be corrosive to metals. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections See the Section 7, 8 and 13.

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. Do not inhale dust. 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. Avoid release to the environment.

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. Keep only in original packaging. Store locked up.

Specific end use(s)

not available

7.3.

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 or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

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



		Pentanal® silver nitra	te 0,01 mol/l (N/10)	
	on date	12th April 2021			
evisi	on date	25th April 2022	Version	2.0	
ECT	ON 9: Physical a	and chemical properties			
.1.	Information or	n basic physical and chemical prope	rties		
	Physical state		solid		
	Colour		colourless		
	Odour		without fragrance		
	Melting point/fre	eezing point	data not available		
	Boiling point or i	initial boiling point and boiling range	data not available		
	Flammability		data not available		
	Lower and uppe	r explosion limit	data not available		
	Flash point		data not available		
	Auto-ignition ter	nperature	data not available		
	Decomposition t	emperature	data not available		
	рН		data not available		
	Kinematic viscos	sity	data not available		
	Solubility in wat	er	data not available		
	Partition coeffici	ent n-octanol/water (log value)	data not available		
	Vapour pressure		data not available		
	Density and/or r	elative density	data not available		
	Relative vapour	density	data not available		
	Particle characte		data not available		
.2.	Other informat	tion			
	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 occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. May be corrosive to metals.

10.6. Hazardous decomposition products 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.

silver nitrate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	2 820 mg/kg		Rat (Rattus norvegicus)	



SAFETY DATA SHEET

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

Pentanal® silver nitrate 0,01 mol/l (N/10)

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Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Acute toxicity

silver nitrate					
Parameter	Value	Exposure time	Species	Environment	
LC50	0.0049 mg/l	96 hours	Fish (Pimephales promelas)		
EC₅o	0.0015 mg/l	48 hours	Daphnia (Daphnia magna)		
IC50	0.0007 mg/l		Algae (M. aeruginosa)		

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



according to Regulation (EC) No 1907/2006 (REACH) as amended Pentanal® silver nitrate 0,01 mol/l (N/10)					
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12.5. Results of PBT and vPvB assessment

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 This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100. 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.

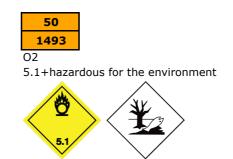
SECTION 14: Transport information

14.1. UN number or ID number

- UN 1493
- **14.2. UN proper shipping name** SILVER NITRATE
- 14.3.Transport hazard class(es)5.1Oxidazing 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

Additional information

Hazard identification No. UN number Classification code Safety signs





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Air transport	- ICAO/IATA			
Packaging	j instructions passenger	558		
Cargo pao	ckaging instructions	562		
Marine trans	port - IMDG			
EmS (em	ergency plan)	F-A, 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 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

s used in the safety data sheet
May intensify fire; oxidiser.
May be corrosive to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
used in the safety data sheet
Keep away from clothing and other combustible materials.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a doctor.
about human health protection
ss specifically approved by the manufacturer/importer - used for purposes other than services responsible for adherence to all related health protection regulations.
onyms used in the safety data sheet
European agreement concerning the international carriage of dangerous goods by road
Bioconcentration Factor
Chemical Abstracts Service
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
Identification code for each substance listed in EINECS
Concentration of a substance when it is affected 50% of the population
European Inventory of Existing Commercial Chemical Substances
Emergency plan
European Union
European Product Categorisation System
International Air Transport Association



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IBC	International Coo Dangerous Chem		nd Equipment of Ships Carrying
IC50	Concentration ca	using 50% blockade	
ICAO	International Civ	I Aviation Organization	
IMDG	International Ma	itime Dangerous Goods	
IMO	International Ma	itime Organization	
INCI	International Nor	nenclature of Cosmetic Ing	gredients
ISO	International Org	anization for Standardizat	ion
IUPAC	International Uni	on of Pure and Applied Ch	emistry
LC50	Lethal concentrat population	tion of a substance in whic	h it can be expected death of 50% of the
LD50	Lethal dose of a population	substance in which it can b	be expected death of 50% of the
log Kow	Octanol-water pa	rtition coefficient	
OEL	Occupational Exp	osure Limits	
PBT	Persistent, Bioac	cumulative and Toxic	
ppm	Parts per million		
REACH	Registration, Eva	luation, Authorisation and	Restriction of Chemicals
RID	Agreement on th	e transport of dangerous g	goods by rail
UN	Four-figure ident Model Regulation		ostance or article taken from the UN
UVCB	Substances of ur biological materia		sition, complex reaction products or
VOC	Volatile organic o	ompounds	
vPvB	Very Persistent a	nd very Bioaccumulative	
Aquatic Acute		aquatic environment	
Aquatic Chronic	Hazardous to the	aquatic environment (chr	onic)
Eye Dam.	Serious eye dam	age	
Met. Corr.	Corrosive to met	als	
Ox. Sol.	Oxidising solid		
Skin Corr.	Skin corrosion		
Training guidelines			

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. 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.

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.