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		Dhaanhawya	lo 1907/2006 (REACH) as amended				
			(V) oxychloride				
	on date	30th September 2019		_			
Revis	on date	11th September 2023	Version 3.	.0			
SECT	ION 1: Identification	of the substance/mixture a	nd of the company/undertaking				
1.1.	Product identifier		Phosphorus(V) oxychloride				
	Substance / mixture		substance				
	Chemical name		phosphoryl trichloride				
	CAS number		10025-87-3				
	Index number		015-009-00-5				
	EC (EINECS) number		233-046-7				
	Registration number		01-2119433306-46-xxxx				
	Other substance nam	e					
	Phosphoryl trick	hlorid					
1.2.	Relevant identified uses of the substance or mixture and uses advised against						
	Substance's intended use						
	Chemical production,		y synthesis, industrial applications.				
	Chemical production, Substance uses adv	analytical chemistry, laborator	y synthesis, industrial applications.				
	Substance uses adv	analytical chemistry, laborator					
1.3.	Substance uses adv The product should ne	analytical chemistry, laborator					
1.3.	Substance uses adv The product should ne	analytical chemistry, laborator vised against ot be used in ways other then					
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L.3.	Substance uses adv The product should no Details of the suppl Supplier Name or trade Address Identification no VAT Reg No Phone E-mail Web address	analytical chemistry, laborator vised against ot be used in ways other then lier of the safety data sheet name umber (CRN)	hose referred in Section 1. Ing. Petr Švec - PENTA s.r.o. Radiová 1122/1, Praha 10, 1 Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu				
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## 2.1. Classification of the substance or mixture

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

Acute Tox. 4, H302 Skin Corr. 1, H314 Acute Tox. 2, H330 STOT RE 1, H372

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

## Most serious adverse effects on human health and the environment

Harmful if swallowed. Fatal if inhaled. Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage.

# penta<sup>°</sup>CHEMICALS UNLIMITED

# Safety data sheet

	SAFETY	DATA SHEET					
	according to Regulation (EC	C) No 1907/2006 (REACH)	as amended				
	Phosphoru	is(V) oxychlorid	le				
Creation date30th September 2019Revision date11th September 2023Version3.0							
.2. Label eleme Hazard pict							
Signal word Danger Dangerous							
phosphoryl t							
•	azard statements						
H302	Harmful if swallow	wed.					
H314	Causes severe sk	in burns and eye damage					
H330	Fatal if inhaled.						
H372	Causes damage t	o organs through prolong	ed or repeated exposure.				
Precautiona	ary statements	-					
P260	Do not breathe d	ust/fume/gas/mist/vapou	rs/spray.				
P280			eye protection/face protection.				
P301+P330+		Rinse mouth. Do NOT ind					
P304+P340	IF INHALED: Ren	nove person to fresh air a	nd keep comfortable for breathing.				
P305+P351+	P338 IF IN EYES: Rinse	-	several minutes. Remove contact				
P310	Immediately call	a doctor.					

## **Supplemental information** EUH014 EUH029

Reacts violently with water. Contact with water liberates toxic gas.

#### 2.3. **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. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## **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: 015-009-00-5 CAS: 10025-87-3 EC: 233-046-7 Registration number: 01-2119433306-46- xxxx	phosphoryl trichloride		Acute Tox. 4, H302 Skin Corr. 1A, H314 Acute Tox. 2, H330 STOT RE 1, H372 EUH014 EUH029	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.



# SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Phosphorus(V) oxychloride Creation date 30th September 2019 Revision date 11th September 2023 Version 3.0

## **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

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

INDUCE VOMITING! Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

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

## If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache.

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. 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.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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. Store locked up. Keep container tightly closed.

7.3. Specific end use(s) not available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

European Union	Commission Directive (EU) 2019/1831		
Substance name (component)	Туре	Value	
	OEL 8 hours	0,064 mg/m <sup>3</sup>	
r h a c h a r d h a	OEL 8 hours	0,01 ppm	
phosphoryl trichloride (CAS: 10025-87-3)	OEL 15 minutes	0,13 mg/m <sup>3</sup>	
	OEL 15 minutes	0,02 ppm	



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## 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. Suitable material: butyl 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 insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. In case of inadequate ventilation wear respiratory protection.

## 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	specific
Melting point/freezing point	1-2 °C
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	1 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.645 g/cm <sup>3</sup>
Relative vapour density	data not available
Particle characteristics	data not available
Other information	
not available	

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

9.2.

The substance is non-flammable.

## 10.2. Chemical stability

- The product is stable under normal conditions.
- **10.3.** Possibility of hazardous reactions Unknown.



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## 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 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. 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.

## Acute toxicity

Harmful if swallowed. Fatal if inhaled.

## phosphoryl trichloride

Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD50	380 mg/kg		Rat (Rattus norvegicus)		

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes severe skin burns and 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

Causes damage to organs through prolonged or repeated exposure.

## Aspiration hazard

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



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## 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

Based on available data the classification criteria are not met. Acute toxicity

## phosphoryl trichloride

Parameter	Value	Exposure time	Species	Environment
EC50	>100 mg/kg	48 hours	Daphnia (Daphnia magna)	

## 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

No data available for the substance.

## 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 1810
- 14.2. UN proper shipping name
- PHOSPHORUS OXYCHLORIDE 14.3. Transport hazard class(es)
- 6.1 Toxic substances

## 14.4. Packing group

I - substances presenting high danger



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14.5.	Environmental I not relevant	hazards						
14.6.	Reference in the	Sections 4 to 8.						
14.7.	Maritime transp not relevant Additional infor	port in bulk according to IMO in mation	nstruments					
	Hazard ident	ification No.	X668					
	UN number Classificatior Safety signs		<mark>1810</mark> TC3 6.1+8 					
			6					
	Marine transpo EmS (emerg		F-A, S-B					

## **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 phras	es used in the safety data sheet				
H302	Harmful if swallowed.				
H314	Causes severe skin burns and eye damage.				
H330	Fatal if inhaled.				
H372	Causes damage to organs through prolonged or repeated exposure.				
Guidelines for safe handling	y used in the safety data sheet				
P260	Do not breathe dust/fume/gas/mist/vapours/spray.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P310	Immediately call a doctor.				
A list of additional standard phrases used in the safety data sheet					
EUH014	Reacts violently with water.				
EUH029	Contact with water liberates toxic gas.				
Other important information	n about human health protection				



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The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and a	cronyms 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
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
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
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
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
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Skin Corr.	Skin corrosion
STOT RE	Specific target organ toxicity - repeated exposure
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.

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

The version 3.0 replaces the SDS version from 21 April 2022. Changes were made in sections 2 and 16.



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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.