

	according to Regulation (EC) No 1907/2006 (REACH) as amended				
			bdic acid hydra	te	
	ion date	10th September 2019			
Revis	ion date	28th April 2023	Version	3.0	
SECT	ION 1: Identification	of the substance/mixture a	nd of the company/un	dertaking	
1.1.	Product identifier		Phosphomolybdic	acid hydrate	
	Substance / mixture		substance		
	Chemical name		Phosphomolybdic	acid hydrate	
	CAS number		51429-74-4		
	EC (EINECS) number		234-713-5		
1.2.	Relevant identified	uses of the substance or m	ixture and uses advise	d against	
	Substance's intended use				
	Chemical production, analytical chemistry, laboratory synthesis, industrial applications.				
	Substance uses advised against				
	-	ot be used in ways other then t	those referred in Section	1.	
1.3.	Details of the supplier of the safety data sheet				
	Supplier				
	Name or trade r	name	Ing. Petr Švec - P	ENTA s.r.o.	
	Address		Radiová 1122/1,	Praha 10, 102 00	
			Czech Republic		
	Identification nu	ımber (CRN)	02096013		
	VAT Reg No		CZ02096013		
	Phone		+420 226 060 68	1	
	E-mail		info@pentachemi		
	Web address		www.pentachemi	cals.eu	
		esponsible for the safety d			
	Name		Ing. Petr Švec - P	ENTA s.r.o.	
	E		info@pentachemi	cals.eu	
	E-mail				
1.4.	E-mail Emergency telephol European emergency				

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.

Ox. Sol. 3, H272 Skin Corr. 1B, H314 Eye Dam. 1, H318

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

2.2. Label elements



Danger



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Phosphomolybdic acid hydrate

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Dangerous substance

Phosphomolybdic acid hydrate (FC · 234-713-5 · CAS · 51/20-7/ /)

	(EC: 234-713-5; CAS: 51429-7	/4-4)	
Hazard statements			
	H272	May intensify fire; oxidiser.	
H314 Causes severe skin burns and eye damage.		Causes severe skin burns and eye damage.	
	Precautionary statements		
	P220	Keep away from clothing and other combustible materials.	
	P280	Wear protective gloves/protective clothing/eye protection/face protection.	
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

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. 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 Phosphomolybdic acid hydrate		Ox. Sol. 3, H272 Skin Corr. 1B, H314 Eye Dam. 1, H318	

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. 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.



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Phosphomolybdic acid hydrate

		-	
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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.

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. 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.

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.



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Phosphomolybdic acid hydrate

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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.

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. Store locked up.

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 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

Respirator. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	yellow
Odour	without fragrance
Melting point/freezing point	78-80 °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	data not available
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	data not available



	JAI	ETY DATA SHEET			
	according to Regulat	tion (EC) No 1907/2006 (REACH) as amended		
Phosphomolybdic acid hydrate					
	on date 10th September 20				
Revisi	on date 28th April 2023	Version	3.0		
	Relative vapour density	data not availa	ble		
	Particle characteristics	data not availa	ble		
9.2.	Other information				
	Oxidising properties	The product ha	as an oxidizing properties.		
SECTI	ON 10: Stability and reactivity				
10.1.					
	The substance is oxidizing.				
L O.2 .	-				
	The product is stable under normal condition	ions.			
LO.3.					
	Unknown.				
L 0.4 .	Conditions to avoid				
	The product is stable and no degradation	occurs under normal use. Prote	ect against flames, sparks, overheating ar		
	against frost.				
L 0.5 .	•				
	Protect against strong acids, bases and oxidizing agents.				
10.6.	Hazardous decomposition products				
L O.6 .					
SECTI	Not developed under normal uses. Danger high temperature and in fire. ON 11: Toxicological information Information on hazard classes as defin	rous outcomes such as carbon r			
SECTI	Not developed under normal uses. Danger high temperature and in fire.	rous outcomes such as carbon r ned in Regulation (EC) No 12 ubstance.			
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SECTION 12: Ecological information

12.1. Toxicity



according to Regulation (EC) No 1907/2006 (REACH) as amended						
Phosphomolybdic acid hydrate						
Creatio	on date	10th September 2019				
Revisio	on date	28th April 2023	Version	3.0		
	Acute toxicity					
12.2.	Persistence an	d degradability				
	not available					
12.3.	Bioaccumulative potential					
	Not available.					
12.4.	Mobility in soil					
	Not available.					
12.5.	Results of PBT	and vPvB assessment				
		, 3		vB in accordance with the Annex XIII		
	5 ()	No 1907/2006 (REACH) as amend	led.			
12.6.		upting 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.						
	Not available.					

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 3084
- **14.2.** UN proper shipping name CORROSIVE SOLID, OXIDIZING, N.O.S. (Phosphomolybdic acid hydrate)
- 14.3. Transport hazard class(es)
- 8 Corrosive 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 (EC) No 1907/2006 (REACH) as amended					
Phosphomolybdic acid hydrate					
Creation date Revision date	10th September 2019 28th April 2023	Version	3.0		
Additional in	formation				
Hazard id	entification No.	85			
UN numb	er	3084			
Classifica	tion code	CO2			
Safety sig	jns	8+5.1			
Air transport	- ICAO/IATA				
	g instructions passenger	859			
5 1	ckaging instructions	863			
Marine trans	•	5 4 6 6			
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

No chemical safety assessment has been performed for this substance.



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Phosphomolybdic acid hydrate Phosphomolybdic acid hydrate Creation date 10th September 2019 Revision date 28th April 2023 Version 3.0

No chemical safety assessment has been performed for this substance.



SAFETY DATA SHEET

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

Phosphomolybdic acid hydrate

Creation date	10th September 2019			
Revision date	28th April 2023	Version	3.0	

No chemical safety assessment has been performed for this substance.

SECTION 16: Other information

A list of standard risk phra	ses used in the safety data sheet
H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
	g used in the safety data sheet
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other important information	on about human health protection
The product must not be - un	less 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 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
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
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	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
Eye Dam.	Serious eye damage
Ox. Sol.	Oxidising solid



	SAFETY I	DATA SHEET		
according to Regulation (EC) No 1907/2006 (REACH) as amended				
	Phosphomoly	bdic acid hydra	ate	
Creation date Revision date	10th September 2019 28th April 2023	Version	3.0	
Skin Corr. Training guide	Skin corrosion			
Inform the perso ways of handling	onnel about the recommended ways the product.	s of use, mandatory pro	tective equipment, first aid	and prohibited
Recommended not available	restrictions of use			

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 16 March 2022. Changes were made in sections 1, 2, 11, 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.