

SAFETY DATA SHEET

 according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
 and Commission Regulation EU No. 453/2010

Name of the product	Phosphoric acid 75 %		
Issue date:	1. 9. 2015	Update:	2.1.2019
			Version: 1.0


SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier	
	Product name:	Phosphoric acid 75% CAS No.: 7664-38-2 EC No.: 231-633-2 Index No.: 015-011-00-6
	Other means of identification:	not set
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses:	Fertilizers, Food/feedstuff additives, Intermediates, Laboratory chemicals, pH-regulating agents, Corrosion inhibitors and anti-scaling agents, Processing aid, not otherwise listed, Degreasing agent, Additive for professional use in inorganic and organic chemical industry or food industry.
	Uses advised against:	not set
1.3	Details of the supplier of the safety data sheet	
	Distributor: (responsible for marketing)	VIA-REK, a.s. Ol. Blažka 145 679 02 Rájec-Jestřebí Czech Republic tel.: +420 516 499 945 / +420 516 499 955 fax: +420 516 499 948 / +420 516 499 933 web: www.via-rek.cz e-mail: expedice@via-rek.cz
1.4	Emergency telephone number	
	Toxicological info center, Na Bojisti 1, 120 00 Praha 2, Czech Republic, +420 224 919 293, +420 224 915 402 (nonstop), e-mail: tis@mbox.cesnet.cz ,	

SECTION 2: HAZARDS IDENTIFICATION

General classification of the substance: the substance is classified as hazardous in compliance with Directive 67/548/EEC and 1999/45/EC, Regulation (EC) No 1907/2006 and Regulation (EC) No 1272/2008.

2.1	Classification of the substance or mixture	
	Classification in accordance with 1272/2008/EC:	Met. Corr.1 H290 Skin Corr. 1B H314
2.2	Label elements	
	Contains:	Phosphoric acid 75% CAS No.: 7664-38-2 EC No.: 231-633-2 Index No.: 015-011-00-6

Hazard pictograms:				
Signal word:	DANGER			
Hazard statements:	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.			
Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P390 Absorb spillage to prevent material damage. P406 Store in corrosive resistant container with a resistant inner liner.			
Other required labeling:	not required			

2.3 Other hazards
The substance does not meet the PBT/vPvB criteria according to REACH, annex XIII; the substance is not included in the Candidate List of SVHC.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances				
Substance	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*	Exposure limits
Phosphoric acid	75	231-633-2 7664-38-2 015-011-00-6	Met. Corr. 1 Skin Corr. 1B	H290 H314 -

* For full wording of used Hazard Statements (H-phrases) see Section 16.e.

3.2 Mixtures
not relevant

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures	Observe all user considerations and safety measures stated on the packaging. In case of any health problem or uncertainty seek medical attention and provide information from this Material Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons.
Inhalation:	In case of unconsciousness place patient stably in side position for transportation. Supply fresh air. Call a doctor immediately.
Skin contact:	Take off immediately all contaminated clothing. Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice
Eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor. Call a doctor immediately.
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Call for a doctor immediately.
4.2 Most important symptoms and effects, both acute and delayed	Gastric or intestinal disorders. No further relevant information available. Hazards Danger of gastric perforation.
4.3 Indication of any immediate medical attention and special treatment needed	If blue colouring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible. No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media Use fire extinguishing methods suitable to surrounding conditions.
5.2	Special hazards arising from the substance or mixture Not known. .
5.3	Advice for fire-fighters Wear fully protective suit. Additional information Not explosive. Not auto-flammable. Not flammable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin. Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away.
6.2	Environmental precautions Do not allow to enter sewers/ surface or ground water
6.3	Methods and materials for containment and cleaning up Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.
6.4	Reference to other sections Adhere to instructions in the section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling Keep receptacles tightly sealed
7.2	Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and receptacles: Use only receptacles specifically permitted for this substance/product. Store in a cool and dry area. Information about storage in one common storage facility: Store away from foodstuffs. Further information about storage conditions: Protect from contamination. Protect from frost. Keep container tightly sealed
7.3	Specific end uses According to the instructions on the package label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
	7664-38-2 Phosphoric acid	
	MAC	Short-term value: 2 mg/m ³
		Long-term value: 1 mg/m ³
8.2	Exposure controls Avoid contact with skin, eyes and mucous membranes. Ensure adequate ventilation. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.	

Appropriate engineering controls:

Ensure adequate ventilation during handling and storage. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures, such as personal protective equipment:

- a) Eye / face protection
Face protection shield. Tightly sealed goggles.
- b) Skin protection: Acid resistant protective clothing
Hand protection:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: Neoprene gloves, Rubber gloves, Latex or rubber
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
- c) Observed Respiratory protection:
Use suitable respiratory protective device only when aerosol or mist is formed.

Environmental exposure controls:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Properties	value	method / condition
Appearance:	liquid / water solution	20°C
Colour:	Colorless to yellowish	-
Odour:	Pungent, makes eyes water	-
Odour threshold:	information not available	-
pH:	< 1.0	20°C
Melting point/freezing point:	information not available	-
Initial boiling point and boiling range:	information not available	-
Flash point:	information not available	-
Evaporation rate:	information not available	-
Flammability (solid, gas)	information not available	-
Upper/lower flammability or explosive limits:	information not available	-
Vapour pressure:	information not available	-
Relative density:	1579 kg/m ³	20°C
Solubility/ies:	soluble in water without restraint	water, 20°C
Partition coefficient: n-octanol/water:	information not available	-
Auto-ignition temperature:	information not available	-
Decomposition temperature:	information not available	-
Viscosity:	information not available	-
Explosive properties:	information not available	-
Oxidising properties:	none	-
9.2 Other information		
No further relevant information available.	-	-

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity Reacts violently with strong alkalis. In contact with reactive metals (as steel to carbon & aluminum) may produce hydrogen. Exothermic reaction with water.
10.2	Chemical stability Stable at recommended storage conditions.
10.3	Possibility of hazardous reactions Reacts with strong alkali. No dangerous reactions known.
10.4	Conditions to avoid No further relevant information available.
10.5	Incompatible materials Strong alkalis and reactive metals. Ammonia.
10.6	Hazardous decomposition products Toxic phosphorus compounds

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects
	<p>DNEL/DMEL(section 5.11.2 CSR) - for workers DNEL-worker-(long-term local effects, inhalation)= 2.92 mg/m³ NOAEC: 876.00 mg/m³ based on AF of 300</p> <p>-for general population DNEL-general population-(long-term local effects, inhalation): 0.73 mg/m³ NOAEC: 438 mg/m³ (based on AF of 600)</p> <p>LD/LC50 values relevant for classification: Oral LD50 1530 mg/kg (rabbit) Dermal >2000 2740 mg/kg (rabbit) Inhalative LC50/2 h 850 mg/l (rat)</p> <p>Primary irritant effect: on the skin: Caustic effect on skin and mucous membranes. on the eye: Strong caustic effect. Sensitization: No sensitizing effects known. Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. Toxicokinetics, metabolism and distribution: Not determined. Acute effects (acute toxicity, irritation and corrosivity): Not known. Sensitisation: Not known. Repeated dose toxicity: Not known. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Substance does not classify according to (EC) 1272/2008 for CMR, categories. 1A, 1B.</p>

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity Aquatic toxicity: No further relevant information available.
12.2	Persistence and degradability No further relevant information available.
12.3	Bioaccumulative potential No further relevant information available


12.4	Mobility in soil No further relevant information available Ecotoxicity: Bacteria inhibition EC 20 (mg/l according to ISO 8192 B): LC50, 96 hours, fish (mg/l) EC50, 48 hours, daphnia (mg/l) IC50, 72 hours, 590 algae (mg/l) Death concentration for fish: 138 mg/l Number toxic: 3,1
12.5	Results of PBT and vPvB assessment Undetermined. PBT: do not apply to inorganic substances. vPvB: do not apply to inorganic substances
12.6	Other adverse effects not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods Recommendation Dilute concentrate with water and neutralize afterwards with suitable alkali material (calcium hydrate). The formed neutral salts are relatively environment-friendly. Do not allow product to reach sewage system. Waste disposal key: 06 01 04 Wastes from the manufacture, formulation, supply and use (MFSU) of acid, phosphoric and phosphoric acid. Recommendation: Disposal must be made according to official regulations
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SECTION 14: TRANSPORT INFORMATION

The substance is classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

14.1	UN Number: UN 1805
14.2	UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid)
14.3	Transport hazard class(es) 8 Hazard identification number (Kemler) 80 Labels 
14.4	Packing group III
14.5	Environmental hazards: no
14.6	Special precautions for user: Warning: Corrosive substances.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not transported

SECTION 15: REGULATORY INFORMATION

15.1	<p>Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p><u>Relevant legislation European Union:</u></p> <ul style="list-style-type: none"> - Regulation (EC) No 1907/2006 of the European Parliament and of the Council, concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 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 - Commission Regulation (ES) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) - Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations - Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances - Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC - Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
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15.2	<p>Chemical safety assessment</p> <p>Chemical safety assessment was carried.</p>
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SECTION 16: OTHER INFORMATION

	<p><i>Full wording of used Hazard Statements (H-phrases)</i></p> <p>H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage</p>
	<p><i>Advice on any training appropriate for workers</i></p> <p>Before handling, storing or using the present substance for the first time, employees must be informed - common training for handling chemicals, occupational safety training.</p>
	<p><i>Other information</i></p> <p>Material Safety Data Sheet is compiled in accordance with the Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 453/2010, and contains information on safety use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information applies on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this MSDS, the distributor is not liable for any damage.</p> <p>The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.</p>