

PHOSPHORIC ACID 75%

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Revision No: 5

Section 1: Identification of the substance/mixture and of the company/undertaking

Product	identifier
	Product

Product name:	PHOSPHORIC ACID 75%
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REACH registered number(s): 01-2119485924-24-XXXX

CAS number: 7664-38-2

EINECS number: 231-633-2

Product code: PHOSA75

Synonyms: ORTHOPHOSPHORIC ACID

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Beverage Processing Aids and Other Usages

1.3. Details of the supplier of the safety data sheet

Company name:	Murphy and Son Ltd
	Murphy & Son Ltd
	Alpine St, Old Basford
	Nottingham
	NG6 0HQ
	United Kingdom
Tel:	(+44) 115 978 5494
Email:	technical@murphyandson.co.uk

1.4. Emergency telephone number

Emergency tel: (+44) 115 978 5494 (office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Met. Corr. 1: H290; Skin Corr. 1B: H314; Eye Dam. 1: H318

Most important adverse effects: Causes severe skin burns and eye damage. Harmful if swallowed. May be corrosive to

metals.

2.2. Label elements

Label elements:		
Hazard statements:	* H314: Causes severe skin burns and eye damage.	
	H302: Harmful if swallowed.	
	H290: May be corrosive to metals.	
Hazard pictograms:	* GHS05: Corrosion	
	GHS07: Exclamation mark	[cont.

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Signal words:	Danger
Precautionary statements:	* P234: Keep only in original packaging.
	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
	P270: Do not eat, drink or smoke when using this product.
	P301+P312: IF SWALLOWED: Call a POISON CENTER if you feel unwell.
	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.
	P363: Wash contaminated clothing before reuse.
	P405: Store locked up.
	P501: Dispose of contents/container to hazardous or special waste collection point.
3 Other hazards	

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ORTHOPHOSPHORIC ACID

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-633-2	7664-38-2	-	Skin Corr. 1B: H314	70-90%

Non-classified ingredients:

WATER

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	7732-18-5	-	-	10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still

on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist

examination. Remove contact lenses, if present and easy to do. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary.

[cont...]

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	Never give anything by mouth to an unconscious person If unconscious and breathing is		
	OK, place in the recovery position. Transfer to hospital as soon as possible.		
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If		
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure		
	the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and		
	provide oxygen if available. If breathing is difficult, give oxygen. If not breathing, give		
	artificial respiration. Transfer to hospital as soon as possible. Obtain medical attention if		
	breathing difficulty and / or other complaints appear		
4.2. Most important symptoms	and effects, both acute and delayed		
Skin contact:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.		
Eye contact:	Corneal burns may occur. May cause permanent damage.		
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be		
	bleeding from the mouth or nose.		
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may		
	cause coughing or wheezing.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Eye bathing equipment should be available on the premises. Show this safety data		
	sheet to the doctor in attendance. Chemical burns must be treated by a physician.		
Section 5: Fire-fighting measu	res		
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5.1. Extinguishing media			

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers. Collect contamined fire extinguishing water separately. This must not be discharged into drains.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Wash thoroughly after dealing with a spillage. Ensure

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procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with contaminated tools and objects.

6.2. Environmental precaution	5				
Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Spillages or					
	uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the				
	Environmental Agency or other appropriate regulatory body.				
6.3. Methods and material for o	containment and cleaning up				
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific				
	substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage				
	container for disposal by an appropriate method. Wash the spillage site with large				
	amounts of water. The contaminated absorbent may pose the same hazard as the				
	spilled material. Dispose of waste to licensed waste disposal site in accordance with				
	the requirements of the				
	local Waste Disposal Authority.				
6.4. Reference to other section	IS				
Reference to other sections:	Peter to postion % of SDS				
Section 7: Handling and storage	je				
7.1. Precautions for safe hand	ing				
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.				
	Do not handle in a confined space. Avoid the formation or spread of mists in the air.				
	Wear suitable protective clothing when mixing or working with the product. Handle in				
	accordance with good industrial hygiene and safety practice. Keep away from food, drink				
	and animal feedingstuffs.				
7.2. Conditions for safe storag	e, including any incompatibilities				
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Avoid incompatible				
	materials and conditions - see section 10 of SDS. Do Not Allow to Freeze Ensure a				
	retention tank is installed.				
Suitable packaging:	Must only be kept in original packaging.				
7.3. Specific end use(s)					

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

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Wo	Workplace exposure limits:			Respirable dust	
	State 8 hour TWA		WA 15 min. STEL 8 hour TWA		15 min. STEL
	EU	1mg/m3	2mg/m3	-	-

Hazardous ingredients:

ORTHOPHOSPHORIC ACID...100%

Workplace exposure limits:		sure limits: Respirable dust			
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL	
UK	1 mg/m3	2 mg/m3	-	-	

DNEL/PNEC Values

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Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	1mg/m3	Workers	Local
DNEL	Inhalation	2mg/m3	Workers	Local
DNEL	Inhalation	10.27mg/m3	Workers	Systemic
DNEL	Oral	0.1mg/kg/day	Consumers	Systemic
DNEL	Inhalation	0.36mg/m3	Consumers	Local
DNEL	Inhalation	4.57mg/m3	Consumers	Local

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area. Ensure all engineering measures		Ensure there is exhaust ventilation of the area. Ensure all engineering measures
		mentioned in section 7 of SDS are in place. Use product only in closed system.
		Emergency eye wash fountains and emergency showers should be available in the
		immediate vicinity.
	Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
	Hand protection:	Wear suitable sythetic gloves (Category 3, Class 3) resistant to chemical penetration
		(cfr. EN374)
	Eye protection:	Face-shield. Use equipment for eye protection tested and approved under appropriate
		government standards such as EN166 Ensure eye bath is to hand.
	Skin protection:	Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:LiquidColour:ColourlessOdour:PungentEvaporation rate:No data available.Oxidising:No data available.

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Solubility in water:	Soluble		
Viscosity:	No data available.		
Boiling point/range°C:	135	Melting point/range°C:	-18
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	10mm Hg at 30C
Relative density:	1.5 - 1.6	pH:	<1
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Avoid Freezing

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Bases. Oxidising agents. Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	300-2000	mg/kg

Hazardous ingredients:

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ORTHOPHOSPHORIC ACID...100%

ORL RAT	LD50	1530 mg	g/kg
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Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

- **Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- **Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	>100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

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13.1. Waste treatment methods		
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal	
	company. Dispose in a safe manner in accordance with local/national regulations. Avoid	
	release into the environment	
Disposal of packaging:	Contaminated packaging should be emptied as far as possible and disposed of in the	
	same manner as the product.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	
Section 14: Transport information	tion	
14.1. UN number		
UN number:	UN1805	
14.2. UN proper shipping name		
Shipping name:	PHOSPHORIC ACID, SOLUTION	
14.3. Transport hazard class(e	s)	
Transport class:	8	
14.4. Packing group		
Packing group:	III	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for u	ser	
Special precautions:	No special precautions.	
Tunnel code:	E	
Transport category:	3	
Section 15: Regulatory information		
15.1. Safety, health and environ	nmental regulations/legislation specific for the substance or mixture	
Specific regulations:		
15.2. Chemical Safety Assessn	nent	
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture	
	by the supplier.	
Section 16: Other information		
Other information		
Other information	eccentric to Deputation (FC) No. 4007/2000 (DEACU) with its smeandment Deputation	

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation

(EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

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Phrases used in s.2 and s.3:	H290: May be corrosive to metals.
	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
Legend to abbreviations:	PNEC = predicted no effect concentration
	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	LDLO = lethal dose low
	EC50 = median effective concentration
	IC50 = median inhibitory concentration
	dw = dry weight
	bw = body weight
	cc = closed cup
	oc = open cup
	MUS = mouse
	GPG = guinea pig
	RBT = rabbit
	HAM = hamster
	HMN = human
	MAM = mammal
	PGN = pigeon
	IVN = intravenous
	IPR = intraperitoneal
	SCU = subcutaneous
	ORL = oral
	SKN = skin
	DRM = dermal
	OCC = ocular/corneal
	OPT = optical
	ING = ingestion
	INH = inhalation
	PCP = physico-chemical properties
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