ooo philip harris



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING						
1.1 Product identifiers						
Product name:	PHOSPHORIC ACID					
CAS-No.:	7664-38-2					
Product Number:	A70178					
1.2 Relevant identified uses	1.2 Relevant identified uses of the substance or mixture and uses advised against					
Identified uses: Laboratory chemicals, Manufacture of substances						
1.3 Details of the supplier of the safety data sheet						
Company : Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR,						
	UNITED KINGDOM					
Telephone: +44 (0)845 12	200 506 Fax: +44 (0)161 367 2140					
Email: enqui	ries@philipharris.co.uk					
1.4 Emergency telephone number						
Emergency Phone #:	+44 (0)845 1200 506					

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No1272/2008; Skin corrosion (Category 1B)

According to European Directive 67/548/EEC as amended: Causes burns.

2.2 Label elements



Pictogram Signal word

Danger

Hazard statement(s): H314 Causes severe skin burns and eye damage.

Precautionary statement(s): P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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 POISON CENTER or doctor/ physician.

According to European Directive 67/548/EEC as amended.



Hazard symbol(s):

R-phrase(s): R34 Causes burns.

S-phrase(s): S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards - no data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Phosphoric acid (Synonyms : Orthophosphoric acid)

Formula:	H ₃ PO ₄
Molecular Weight:	98.00
CAS-No.:	7664-38-2
EC-No.:	231-633-2
Index-No.:	015-011-00-6

Water

Formula:	H ₂ O
CAS-No.:	7732-18-5
EC-No.:	231-791-2

3.2 Mixtures

Component	Classification	Concentration	
Phosphoric acid	C, R34	85%	
Water	-	15 %	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 *Most important symptoms and effects, both acute and delayed:* Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

4.3 Indication of immediate medical attention and special treatment needed: no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture: Oxides of phosphorus

5.3 *Precautions for fire-fighters:* Wear self contained breathing apparatus for fire fighting if necessary.

5.4 *Further information:* no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures:* Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 *Environmental precautions:* Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 *Methods and materials for containment and cleaning up:* Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections: For disposal see section 13.

7. HANDLING AND STORAGE

7.1 *Precautions for safe handling:* Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses: no data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Update
Phosphoric acid	64-19-7	TWA	1mg/m ³	2000/39/EC
Phosphoric acid	64-19-7	STEL	2mg/m ³	2000/39/EC
Phosphoric acid	64-19-7	TWA	1mg/m ³	EH40 WEL
Phosphoric acid	64-19-7	STEL	2mg/m ³	EH40 WEL

8.2 Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: F	orm: Liqui	d Colour : no data available		
b) Odour:	no d	ata available		
c) Odour Threshold:	no d	ata available		
d) pH:	no d	ata available		
e) Melting/freezing point:		Melting point/range: no data available		
f) Initial boiling point and b	ooiling range	e: no data available		
g) Flash point:	no da	ata available		
h) Evaporation rate:	no da	ata available		
i) Flammability (solid, gas): no da	ata available		
j) Upper/lower flammabilit	y or explosi	ve limits: no data available		
k) Vapour pressure:	no d	ata available		
I) Vapour density:	no d	ata available		
m) Relative density:	1.48	1 g/cm3		
n) Water solubility: no data available				
o) Partition coefficient: n-octanol/water: no data available				
p) Autoignition temperatur	re: no da	ata available		
q) Decomposition tempera	ature: no d	ata available		
r) Viscosity:	no d	ata available		

- s) Explosive properties: no data available
- t) Oxidizing properties: no data available
- 9.2 Other safety information: no data available

10. STABILITY AND REACTIVITY

- 10.1 *Reactivity:* no data available
- 10.2 Chemical stability: no data available
- 10.3 Possibility of hazardous reactions: no data available
- 10.4 Conditions to avoid: no data available
- **10.5** *Incompatible materials:* Strong bases, Powdered metals
- 10.6 Hazardous decomposition products: Other decomposition products no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1%

is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Potential health effects

Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion Harmful if swallowed. Causes burns.

Skin May be harmful if absorbed through skin. Causes skin burns

Eyes Causes eye burns..

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 *Toxicity:* no data available

12.2 Persistence and degradability: no data available

- 12.3 Bioaccumulative potential: no data available
- 12.4 *Mobility in soil:* no data available
- 12.5 *Results of PBT and vPvB assessment:* no data available
- 12.6 Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION						
14.1 UN-Number						
ADR/RID:	1805	IMDG:	1805	IATA:	1805	
14.2 UN proper shipping name						
ADR/RID:	ADR/RID: PHOSPHORIC ACID SOLUTION					
IMDG:	IMDG: PHOSPHORIC ACID SOLUTION					
IATA:		PHOSPHORIC ACID SOLUTION				
14.3 Transpor	14.3 Transport hazard class(es)					
ADR/RID:	8	IMDG:	8	IATA:	8	
14.4 Packaging group						
ADR/RID:	III	IMDG:	III	IATA:	III	
14.5 Environmental hazards						
ADR/RID:	no	IMDG Marine pollutant: no		IATA: no		
14.6 Special precautions for users						
no data available						

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or *mixture:* no data available

15.2 Chemical Safety Assessment: no data available

16. OTHER INFORMATION

H314 Causes severe skin burns and eye damage.

Skin Corr. Skin corrosion

C Corrosive

R34 Causes burns.

A70178