ooo philip harris



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1 Product i	dentifiers				
Product name	ZINC SULFATE HEPTAHYDRATE AR				
CAS-No.:	7446-20-0				
Product Number: F80788					
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 1200 506 Fax: +44 (0)161 367 2140				
Email:	enquiries@philipharris.co.uk				
1.4 Emergency telephone number					
Emergency Pl	Emergency Phone #: +44 (0)845 1200 506				

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No1272/2008; Acute toxicity (Cat 4) H302, Serious eye damage

(Cat 1) H318, Short- term (acute) aqautic hazard (Cat 1) H400, Long-term (chronic) aquatic hazard (Cat), H410.

2.2 Label Elements:

Labelling according Regulation (EC) No 1272/2008

Pictogram

AND A

Danger



Signal word

Hazard statement(s):

H302 I	Harmful if swallowed
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- H318 Causes serious eye damage
- H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

P273	Avoid release to the environment.	
	Revision date: 05.11.2020	F80788

P280	Wear protective gloves/ eye protection/ face protection			
P305+P351P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
lenses, if present and easy to do. Continue rinsing.				
P501	Dispose of contents/ container to an approved waste disposal plant.			

2.3 Other hazards - no data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances	
Zinc sulphate monohydrate	
Formula:	ZnSO ₄ · 7H ₂ O
Molecular Weight:	287.56 g/mol
CAS-No.:	7446-20-0
EC-No.:	231-793-3
Index-No.:	030-006-00-9

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: Wash off with soap and plenty of water.

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

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed: no data available

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: no data available

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:* Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

6.2 *Environmental precautions:* Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 *Methods and materials for containment and cleaning up:* Pick up and arrange disposal without creating dust. 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 formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic

7.3 Specific end uses: no data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Contains no substances with occupational exposure limit values.

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: Safety glasses with side-shields conforming to EN166.

Skin protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) 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: Pov	vder	Colour: White		
b) Odour:	no	lata availab	le		
c) Odour Threshold:	no	data availab	le		
d) pH:	no	lata availab	le		
e) Melting/freezing point:		Melting	point/range: no data available		
f) Initial boiling point and boiling range: no data available					
g) Flash point:	no	lata availab	le		
h) Evaporation rate:	no	lata availab	le		
i) Flammability (solid, gas): no (lata availab	le		
j) Upper/lower flammability or explosive limits: no data available					

9.2 Other safety information:	no data available
t) Oxidizing properties:	no data available
s) Explosive properties:	no data available
r) Viscosity:	no data available
q) Decomposition temperature:	no data available
p) Autoignition temperature:	no data available
o) Partition coefficient: n-octano	l/water: no data ava
n) Water solubility:	no data available
m) Relative density:	no data available
I) Vapour density:	no data available
k) Vapour pressure:	no data available

10. STABILITY AND REACTIVITY

10.1 *Reactivity:* no data available

10.2 *Chemical stability:* Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: no data available

10.4 Conditions to avoid: Avoid moisture.

10.5 Incompatible materials: Strong oxidizing agents

10.6 *Hazardous decomposition products:* formed under fire conditions. - Sulphur oxides, Zinc/zinc oxides

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 harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes serious eye irritation.

Signs and Symptoms of Exposure: Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to the skin.

Additional Information: RTECS: no data 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:* Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. **Contaminated packaging:** Dispose of as unused product.

14. TRANSPORT INFORMATION								
14.1 UN-Number								
ADR/RID:	3077	IMDG:	3077		IATA:	3077		
14.2 UN prop	er shipp	ing name						
ADR/RID:		ENVIRON	MENTALLY	HAZARDOUS	SUBSTANCE,	SOLID,	N.O.S.	(Zinc
sulphate mono	hydrate))						
IMDG:		ENVIRON	MENTALLY	HAZARDOUS	SUBSTANCE,	SOLID,	N.O.S.	(Zinc
sulphate mono	ohydrate)							
IATA:		ENVIRON	MENTALLY	HAZARDOUS	SUBSTANCE,	SOLID,	N.O.S.	(Zinc
sulphate mono	hydrate)							
14.3 Transpo	rt hazaro	d class(es)						
ADR/RID:	9	IMDG:	9		IATA:	9		
14.4 Packaging group								
ADR/RID:	III	IMDG:	III		IATA:	111		
14.5 Environmental hazards								
ADR/RID: no IMDG Marine pollutant: no				IATA: no				
14.6 Special precautions for users: EMS-No: F-A, S-F								

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

Aquatic Acute Acute aquatic toxicity

Aquatic Chronic Chronic aquatic toxicity

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.