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Section 1: Identification of the substance/preparation and the company

1.1 Product Identifier:

Product name: LITHOPONE 30%

1.2 Applications

Identified uses: Manufacture of plastics products
Manufacture of paper
Manufacture of paints and coatings

1.3 Details of the supplier of the safety data sheet

Company: RICHARD BAKER HARRISON LTD
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1.4 Emergency telephone number:

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Section 2: Hazards Identification

2.1. Classification of the substance or mixture

This material is a mixture

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Not a hazardous substance or mixture according to (EC) 1272/2008 (EU 'CLP' regulation).

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

The product does not need to be labelled in accordance with EC directives.

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2.3. Other hazards

None identified

Section 3: Composition and Information on Ingredients

3.2. Mixture

Chemical nature: powder

Chemical name	CAS No	EC Number	%	Classification (Regulation (EC) 1272/2008)
Barium Sulfate (BaSO ₄)	7727-43-7	231-784-4	≤ 70	Not classified
Zinc sulphide (ZnS)	1314-98-3	215-251-3	≤ 30	Not classified

Section 4: First-aid measures

4.1. Description of first aid measures

General advice

Obtain medical advice. Show this safety data sheet to the doctor in attendance. Move the exposed person to fresh air at once. Treat symptomatically.

Inhalation

Move to fresh air. If not breathing provide artificial respiration. Obtain medical assistance.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Obtain immediate medical assistance.

Skin contact

Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact

Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

4.2. Most important symptoms and effects, both acute and delayed

No hazard to be specially mentioned.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide (CO₂) or extinguishing media based on surrounding materials.

Unsuitable extinguishing media : Do NOT use water jet

5.2. Special hazards arising from the substances or mixture

Specific hazard during firefighting : The product is not flammable.
Burning produces noxious and toxic fumes.

5.3. Advice for fire fighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and full protective clothing.
Residues from fire-fighting may be irritant or toxic.

Further information : Standard procedure for chemical fires.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with the skin and the eyes.
Do not breathe dust, vapours or mist.

6.2. Environmental precautions

Environmental precautions: Avoid dust dispersion to the environment.
Dust may cause the surroundings to become white.
Prevent leakages from entering drains and ditches that lead to natural waterways.

6.3. Methods and material for containment and cleaning up

Method for cleaning up: Take up mechanically (e.g. vacuum, sweeping) while minimising dust generation.
Shovel material into sealable suitable containers.

6.4. Reference to any other sections

See section 13 for disposal information

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Section 7: Handling and storage

7.1. Precautions for safe handling:

Avoid dust formation during handling. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. In case of insufficient ventilation, wear suitable respiratory equipment.

7.2. Conditions for safe storage, including any incompatibilities

Fire precautions : The product is not flammable.
 Storage conditions/ packing material : Store in a dry and cool area.
 Incompatible products : Do not store near acid.

7.3. Specific end use(s)

None

Section 8: Exposure controls/Personal protection

8.1. Control parameters

(a) UK

Substance	CAS Number	Workplace exposure limit				Comment
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m ⁻³	ppm	mg.m ⁻³	
Barium sulphate inhalable dust	7727-43-7	-	10	-	-	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives
respirable dust		-	4	-	-	

(b) USA

Ingredient Name	CAS No	TYPE	VALUE	UNIT
Barium Sulphate	7727-43-7	OSHA	15 (inhalable aerosol) 5 (respirable aerosol)	mg/m ³ mg/m ³
		NIOSH	10 (total dust) 5 (respirable fraction)	mg/m ³

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8.2 Exposure controls

Engineering measures: Maintain exposures below applicable exposure limits

Personal protection equipment

Industrial hygiene measures:	Keep in clean conditions. Avoid dust formation
Respiratory protection:	A respirator must be used if the dust concentration is likely to exceed the occupational exposure limit. At higher concentrations wear particle filter DIN EN 143 - P2. or equivalent approved by NIOSH.
Hand protection:	Prolonged exposure should be avoided by wearing suitable protective gloves and clothing: In full contact: nitrile rubber - 0.11mm In splash contact: nitrile rubber - 0.11 mm
Eye protection:	The use of approved dustproof goggles is recommended if the dust concentration is likely to exceed the Occupational exposure limit
Skin protection:	Barium Sulphates and Zinc Sulphates are not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing

Environmental exposure controls

General advice: No special environmental precautions required.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemicals properties

Appearance:	powder
Colour:	white
Odour:	odourless
Odour threshold:	Not applicable.
pH:	6.0 – 8.0
Melting point:	No data available.
Boiling point:	No data available.
Flash point:	Does not flash
Evaporation rate:	No data available.
Flammability	Not flammable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable.
Vapour density:	Not applicable (stable)

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	solid).
Density:	4.3 g/ml at 20°C
Solubility:	< 10 ⁻² g/l
Partition coefficient n-octanol/water:	Not applicable.
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available.
Viscosity:	Not applicable (solid).
Explosive properties:	No danger of explosion
Oxidising properties:	Not applicable.

9.2. Other information

No additional data available

Section 10: Stability and reactivity

10.1. Reactivity

Reacts with acids to form hydrogen sulphide.

10.2. Chemical stability

Stable at room temperature and under recommended storage conditions

10.3. Possibility of hazardous reactions

No hazardous reactions expected under recommended storage conditions.
Reaction with acids.

10.4. Conditions to avoid

Temperatures > 800 °C, low pH

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

Hydrogen Sulphide, Sulphur Oxides

Section 11: Toxicological information

11.1 Information on toxicological effects

(a) Acute toxicity

LD50 Oral :

LD50

Dose: >5,000 mg/kg

Estimated from ECHA registration dossier of BaSO₄ and ZnS

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LC50 Inhalation:	No data available
LD50 Dermal:	LD50 Dose: > 2,000 mg/kg Estimated from ECHA registration dossier of BaSO ₄ and ZnS
(b) Skin corrosion/irritation	Not expected to cause irritation based on read-across from supporting substance.
(c) Serious eye damage/ eye irritation	Not expected to cause irritation based on read-across from supporting substance.
(d) Respiratory or skin sensitisation	Not believed to be sensitising based on read-across from supporting substance.
(e) Germ cell mutagenicity	No believed to be mutagenic based on read-across from supporting substance.
(f) Carcinogenicity	No believed to be carcinogenic based on read-across from supporting substance.
(g) Reproductive toxicity	No believed to be reprotoxic based on read-across from supporting substance.
(h) Specific target organ toxicity – Single exposure	No data available.
(i) Specific target organ toxicity – Repeated exposure	No data available
(j) Aspiration hazard	No data available.
(k) Likely routes of exposure	
Inhalation	
Ingestion	
Skin	
Eyes	
(l) Signs and symptoms of exposure	
Not data available	
(m) Additional information	
No data available.	

Section 12: Ecological information

12.1. Toxicity

Toxicity to fish:	Acute toxicity LC50 Species: Fish Dose: >1000 mg/l Exposure time: 96h Estimated from ECHA registration dossier of BaSO ₄ and ZnS
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Toxicity to daphnia Acute toxicity LC50
 Species: Daphnia magna
 Dose: >14.5 mg/l
 Exposure time: 48h
 Estimated from ECHA registration dossier of BaSO₄ and ZnS

12.2. Persistence and biodegradability

Expected to be biodegradable

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative nor toxic (PBT).
 This substance is not considered to be very persistent nor very bioaccumulative (vPvB)

12.6. Other adverse effects

No data available.

Section 13: Waste disposal information

13.1. Waste treatment methods

Product

Non-hazardous waste according to European Directive 91/689/EEC. Place in an appropriate disposal facility in compliance with local and national regulations.

Packaging

Containers that cannot be cleaned must be treated as waste and disposed of in an approved industrial incineration facility. The empty and clean containers may be reused in conformity with regulations.

Section 14: Transport information

14.1. UN number: n/a

	ADR/RID	ADN	IMDG	IATA:
14.2. UN proper shipping name	Not classified as a dangerous good for transport			
14.3. Transport hazard class(s)	n/a	n/a	n/a	n/a
14.4. Packing group	n/a	n/a	n/a	n/a
14.5. Environmental hazards	n/a	n/a	Marine pollutant: No	n/a

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14.6. Special precautions for user

None identified

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

No information available

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

None identified

15.2. Chemical safety assessment

The supplier has not performed a chemical safety assessment on this substance

Section 16: Additional information

ANNEX

Exposure scenarios for this material are not available.

Abbreviations:

(Not all abbreviations are used in this SDS.)

AC	Article category
ADR	European agreement concerning the international carriage of dangerous goods by road
AND	European agreement concerning the international carriage of dangerous goods by inland waterways
BSAF	Bio soil accumulation factor
BCF	Bio concentration factor
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging
CMR	Carcinogenic, mutagenic or toxic for reproduction
CSA/CSR	Chemical safety assessment / Chemical safety report
D50	Median particle size
DNEL	Derived no effect level
DSD	Dangerous Substance Directive
EC10	Concentration of a substance where 10% of the population is affected
EC50	Concentration of a substance where 50% of the population is affected
ECHA	European chemicals agency
EINECS	EU list of existing chemical substances
EmS	Emergency schedule
ERC	Environmental release category
ES	Exposure scenario
eSDS	Extended safety data sheet
FOREGS	Forum of European Geological Surveys
GHS	Globally harmonised system
HERAG	Health risk assessment guidance for metals
IATA-DGR	International air transport association - dangerous goods regulations
ICAO	Technical Instructions for the Safe Transport of Dangerous Goods by Air
IU	Identified use
IUPAC	International Union of Pure and Applied Chemistry

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IBC code International code for the construction and equipment of ships carrying dangerous chemicals in bulk
 IMDG International maritime dangerous goods
 KP Partition coefficient
 LC10 Lethal concentration of a substance that can be expected to cause death in 10% of the population
 LC50 Lethal concentration of a substance that can be expected to cause death in 50% of the population
 LD50 Lethal dose of a substance that can be expected to cause death in 50% of the population
 MARPOL 73/78 International convention for the prevention of pollution from ships, 1973 as modified by the protocol of 1978
 MMAD Mass median aerodynamic diameter
 NO(A)EC No observed (adverse) effect concentration
 NO(A)EL No observed (adverse) effect level
 OECD Organisation for economic co-operation and development
 OEL Occupational exposure limit
 PBT Persistent, bioaccumulative, and toxic
 PC Product category
 PNEC Predicted no-effect concentration
 PROC Process category
 REACH Registration, evaluation, authorisation and restriction of chemicals (i.e. Regulation (EC) No. 1907/2006)
 RID International rule for transport of dangerous substances by railway
 SDS Safety data sheet
 STOT Specific target organ toxicant
 STP Sewage treatment plant
 SU Sector of end use
 TWA Time weighted average
 vPvB Very persistent, very bioaccumulative

References:

ECHA dossier reference:

Barium Sulfate (BaSO₄) CAS: 7727-43-7

http://apps.echa.europa.eu/registered/data/dossiers/DISS-97d78296-bd48-13fd-e044-00144f67d031/AGGR-db3516b0-bb15-484f-a3a1-df62286eeb34_DISS-97d78296-bd48-13fd-e044-00144f67d031.html#AGGR-db3516b0-bb15-484f-a3a1-df62286eeb34

Zinc sulphide (ZnS) CAS: 1314-98-3

http://apps.echa.europa.eu/registered/data/dossiers/DISS-97d78296-bd48-13fd-e044-00144f67d031/DISS-97d78296-bd48-13fd-e044-00144f67d031_DISS-97d78296-bd48-13fd-e044-00144f67d031.html

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