

ZINC SULPHATE HEPTAHYDRATE

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Revision No: 3

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

Section 1. Identification of the	substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name:	ZINC SULPHATE HEPTAHYDRATE	
REACH registered number(s):		
CAS number:		
EINECS number:	231-793-3	
Product code:	ZINSUL	
Synonyms:	WHITE VITRIOL	
	GOSLARITE	
INCI name:		
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	ne 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 subst	ance or mixture	
Classification under CLP:	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318	
Most important adverse effects:	Harmful if swallowed. Causes serious eye damage. Very toxic to aquatic life. Very toxic to	
	aquatic life with long lasting effects.	
2.2. Label elements		
Label elements:		
Hazard statements:	H302: Harmful if swallowed.	

H318: Causes serious eye damage.

[cont...]

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H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. Hazard pictograms: GHS05: Corrosion GHS07: Exclamation mark GHS09: Environmental Signal words: Danger Precautionary statements: P264: Wash hands, forearms and face thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. 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.

P330: Rinse mouth.

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:

ZINC SULPHATE - REACH registered number(s): 01-2119474684-27-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-793-3	7733-02-0	-	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	50-70%

Section 4: First aid measures

4.1. Description of first aid measures		
Skin contact:	Wash immediately with plenty of soap and water.	
Eye contact:	Bathe the eye with running water for 15 minutes.	
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water	
	to drink immediately. Transfer to hospital as soon as possible.	
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a	
	doctor.	
4.2. Most important symptoms and effects, both acute and delayed		

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

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Ingestion:	There may be irritation of the throat. There may be soreness and redness of the mouth
	and throat. There may be difficulty swallowing. Nausea and stomach pain may occur.
	There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

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

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: 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.

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. Mark out the contaminated area

with signs and prevent access to unauthorised personnel. If outside do not approach

from downwind. Do not create dust.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate

method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in

the air. Avoid direct contact with the substance.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): Beverage Processing Aids and Other Usages

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:Ensure there is sufficient ventilation of the area.Respiratory protection:Respiratory protective device with particle filter.Hand protection:Protective gloves.Eye protection:Safety glasses. Ensure eye bath is to hand.Skin protection:Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Powder		
Colour:	White		
Odour:	Odourless		
Evaporation rate:	Not applicable.		
Oxidising:	Not applicable.		
Solubility in water:	Soluble		
Boiling point/range°C:	No data available.	Melting point/range°C:	No data available.
Flammability limits %: lower:	Not applicable.	upper:	Not applicable.
Flash point°C:	>93	Part.coeff. n-octanol/water:	Not applicable.
Autoflammability°C:	Not applicable.	Vapour pressure:	Not applicable.
Relative density:	2.0	pH:	4-6
VOC g/l:	Not applicable.		

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.

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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.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

ZINC SULPHATE

IVN	RAT	LD50	69900	µg/kg
ORL	MUS	LD50	245	mg/kg
ORL	RAT	LD50	1710	mg/kg

Relevant hazards for product:

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

Symptoms / routes of exposure

Section 12: Ecological information		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.	
	through the lungs can occur causing symptoms similar to those of ingestion.	
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Absorption	
	There may be vomiting.	
	and throat. There may be difficulty swallowing. Nausea and stomach pain may occur.	
Ingestion:	There may be irritation of the throat. There may be soreness and redness of the mouth	
Eye contact:	There may be irritation and redness.	
Skin contact:	There may be mild irritation at the site of contact.	

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12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in 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: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(ZINC SULPHATE)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

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Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

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:	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.
Phrases used in s.2 and s.3:	H302: Harmful if swallowed.
	H318: Causes serious eye damage.
	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.
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

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 SKN = skin

 DRM = dermal

 OCC = ocular/corneal

 OPT = optical

 ING = ingestion

 INH = inhalation

 PCP = physico-chemical properties

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.

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