SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date 16-Jan-2023

Revision Number 1

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

1.1. Product identifier				
Product Name	TRIO			
Product Code(s)	TP.2012.F.1ISR			
Chemical name	Tribasic sulphate 340 SC			
Pure substance/mixture Mixture				
1.2. Relevant identified uses of	the substance or mixture and uses advised against			
Recommended use Fungicide; For professional users only				
Uses advised against	No information available			
1.3. Details of the supplier of the	ne safety data sheet			
<u>Manufacturer</u> Tapazol Chemical Works Ltd. 1st HaSolela st. West. Ind. Zone Beit Shemesh, Israel 9905415				

West. Ind. Zone Beit Shemesh, Israel 9905415 Tel:+972-2-992-6040 Fax: +972-2-9926050 For further information, please contact sds@tapazol.co.il

1.4. Emergency telephone number

Emergency Telephone

+972 4 777 1900 National Institute for Information on Poisoning Rambam Health Care Campus, Haifa, Israel

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Gases)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

Contains Tri-basic copper sulfate

TRIO



Warning

Hazard statements

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H410 - Very toxic to aquatic life with long lasting effects
EUH208 - Contains (2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol). May produce an allergic reaction
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children

- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P273 Avoid release to the environment
- P391 Collect spillage
- P501 Dispose of contents/ container to an approved waste disposal plant

Additional information

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	Group III Chemical	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tri-basic copper sulfate	215-582-3	1333-22-8	28-32	Acute Tox.4 (H302) Aquatic Acute 1 (H400) M=10 Aquatic Chronic 1 (H410) M=10
Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt	617-192-2	81065-51-2	1-3	Eye Irr. 2 (H319) Aquatic Chronic 3 (H412)
2,2',2"-(hexahydro-1,3,5-triazine -1,3,5-triyl)triethanol	225-208-0	4719-04-4	0.05-0.15	Acute Tox. 4 (H302) Skin Sens. 1 (H317) SCL ≥ 0,1 %
Quarz (SiO2), respirable	238-878-4	14808-60-7	<0.01	STOT RE (Lung) 1

particles		(H372)

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

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

Symptoms	Itching. Rashes. Hives.			
4.3. Indication of any immediate medical attention and special treatment needed				
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.			

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Small Fire Large Fire	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam Dike fire-control water for later disposal Move containers from fire area if you can do it without risk			
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.			
5.2. Special hazards arising from the	ne substance or mixture			
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.			
5.3. Advice for firefighters				
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	See Section 12 for additional Ecological Information.
6.3. Methods and material for contain	nment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.
7.3. Specific end use(s)	

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Netherlands	Bulgaria
Tri-basic copper sulfate	-	TWA: 1 mg/m ³	-	TWA: 0.1 mg/m ³	TWA: 1.0 mg/m ³
1333-22-8		TWA: 0.1 mg/m ³			
		STEL 4 mg/m ³			
		STEL 0.4 mg/m ³			
Quarz (SiO2), respirable	TWA: 0.1 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.075 mg/m ³	TWA: 0.1 mg/m ³
particles	-				
14808-60-7					
Chemical name	Denmark	Germany	France	United Kingdom	Spain

Tri-basic copper sulfate 1333-22-8	-	-	-	-	TWA: 0.1 mg/m ³
Quarz (SiO2), respirable particles 14808-60-7	TWA: 0.3 mg/m ³ TWA: 0.1 mg/m ³	-	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Quarz (SiO2), respirable	-	(-)	-	-	-
particles					
14808-60-7					

8.2. Exposure controls

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state Liquid

Physical state	Liquid	
Color	blue	
Property	Values	Remarks • Method
pH	6.0 - 8.0	
pH (as aqueous solution)		
Melting point / freezing point		
Boiling point / boiling range		
Flash point	>100 °C	
Evaporation rate	No data available.	
Flammability (solid, gas)	No data available.	
	NU uata avaliable.	
Flammability Limit in Air		
Upper flammability or explosive	No data available.	
limits		
Lower flammability or explosive	No data available.	
limits		
Vapor pressure	No data available.	
Vapor density	No data available.	
Relative density	1.18 - 1.3	
Water solubility	Forms a suspension	
,	No data available.	
Solubility(ies)		
Partition coefficient	No data available.	
Autoignition temperature	No data available.	
Decomposition temperature		

Kinematic viscosity Dynamic viscosity No data available. No data available.

9.2. Other information

SECTION 10: Stability and reactivity			
10.1. Reactivity			
10.2. Chemical stability			
Stability	Stable under normal conditions.		
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge			
10.3. Possibility of hazardous reactions			
Possibility of hazardous reactions	None under normal processing.		
10.4. Conditions to avoid			
Conditions to avoid	None known based on information supplied.		
10.5. Incompatible materials			
Incompatible materials	None known based on information supplied.		
10.6. Hazardous decomposition products			
Hazardous decomposition products	Hazardous decomposition products None known based on information supplied.		

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Oral LD50 Dermal LD50 Inhalation LC50	 2000 mg/kg. Acute Tox. 4 (H302) Classification based on test data. > 2000 mg/kg. Based on available data, the classification criteria are not met. > 5.589 mg/l air 4 h. Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Non-irritating to the skin. Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Non-irritating to the eyes. Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Not a skin sensitizer. Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Not classified. Based on calculation method classification criteria are not met.

Chemical name		European Union	
Tri-basic copper sulfate		Not classified	
Carcinogenicity	enicity Not classified. Based on calculation method classification criteria are not met.		
Chemical name European Union		European Union	
Tri-basic copper sulfate		Not classified	

Reproductive toxicity

Not classified. Based on calculation method classification criteria are not met.

Chemical name		European Union
Tri-basic copper	sulfate	Not classified
STOT - single exposure STOT - repeated exposure		alculation method classification criteria are not met. alculation method classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

H400 - Very toxic to aquatic life. Classification based on calculation method. H410 - Very toxic to aquatic life with long lasting effects. Classification based on calculation method. Low toxicity to honeybees.

12.2. Persistence and degradability

Persistence and degradability	Non-persistent.
	Not readily biodegradable.
	Copper ion rapidly released in soil. Copper is a naturally occurring element and, as such,,
	does nbot then degrade further. DT_{50} of C u >10,000 days.

12.3. Bioaccumulative potential

Bioaccumulation	Low potential for bioaccumulation.

Bioconcentration factor (BCF) No data available

Chemical name	Partition coefficient
Tri-basic copper sulfate	Log P = 0.44 (at pH 7, 20 °C)

12.4. Mobility in soil

Mobility in soil

Non-mobile in soil [tribasic copper sulphate].

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The components in formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Tri-basic copper sulfate	The substance is not PBT / vPvB
Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt	The substance is not PBT / vPvB
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	The substance is not PBT / vPvB
Quarz (SiO2), respirable particles	The substance is not PBT / vPvB

12.6. Other adverse effects

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	Group III Chemical	-

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IMDG

IMDG14.1 UN number14.2 UN proper shipping name14.3 Transport hazard class(es)14.4 Packing group14.5 Marine pollutant Environmental hazards14.6 Special precautions for user Special Provisions14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	3082 Environmentally hazardous substance, liquid, n.o.s. [Tribasic copper sulphate] 9 III Yes Yes None
RID14.1UN number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user Special Provisions	3082 Environmentally hazardous substance, liquid, n.o.s. [Tribasic copper sulphate] 9 III Yes None
<u>ADR</u> 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions	3082 Environmentally hazardous substance, liquid, n.o.s. [Tribasic copper sulphate] 9 III Yes None
IATA 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions	3082 Environmentally hazardous substance, liquid, n.o.s. [Tribasic copper sulphate] 9 III Yes None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)		
Chemical name	French RG number	Title

Quarz (SiO2), respirable particles RG 25 -			
	Quarz (SiO2), respirable particles 14808-60-7	NG 20	-

Germany

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories	
TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

	c to aquatic life with I to aquatic life with lor			
Legend SVHC: Substand	ces of Very High Con	cern for Authorization:		
Legend Sectio TWA Ceiling	n 8: Exposure contr TWA (time-weigh Maximum limit va		on STEL *	STEL (Short Term Exposure Limit) Skin designation
H312 - Classifica H318 - Classifica H332 - Classifica H400 - Classifica	ation based on test d ation based on Plant ation based on Plant	Protection authority opi Protection authority opi Protection authority opi ation method	nion in Israel	
Agency for Toxic U.S. Environmen European Food EPA (Environmen Acute Exposure U.S. Environmen Food Research Hazardous Subs International Uni Japan GHS Clas Australia National NIOSH (National National Library National Library National Toxicol New Zealand's C Organization for Organization for	c Substances and Dis natal Protection Agence Safety Authority (EFS ental Protection Agence Guideline Level(s) (A natal Protection Agence Journal stance Database form Chemical Inform sification al Industrial Chemica I Institute for Occupa of Medicine's Cheml of Medicine's PubMeto ogy Program (NTP) Chemical Classification Economic Co-operate Economic Co-operate Economic Co-operate	cy) NEGL(s)) by Federal Insecticide, F by High Production Volu nation Database (IUCLI Is Notification and Asse tional Safety and HealtI D Plus (NLM CIP) of database (NLM PUB on and Information Data ion and Development E) Fungicide, and Roo me Chemicals D) essment Scheme (h) MED) hvironment, Heal ligh Production Vo	(NICNAS) th, and Safety Publications olume Chemicals Program
Revision date		16-Jan-2023		
This material s	afety data sheet cor	nplies with the require	ements of Regula	ation (EC) No. 1907/2006

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet