

### SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/5

# Heat Spreader (PH3)

Revision 0
Revision date 2012-03-08

SECTION 1: Identification of the substance/mixture and	d of the company/undertaking
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### 1.1. Product identifier

Product name Heat Spreader (PH3)

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Description** Heat spreader.

### 1.3. Details of the supplier of the safety data sheet

Company

T-Global Technology Limited

Address 40 Centenary Business Centre

Hammond House

Nuneaton Warwickshire

CV11 6RY

United Kingdom

**Telephone** +44 (0) 20 8133 2062

1.4. Emergency telephone number

Emergency telephone number +-

+44 (0) 20 8133 2062

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Main hazarda	No Cignificant Hazard
Main hazards	No Significant Hazard

2.2. Label elements

Risk phrases No Significant Hazard.

2.3. Other hazards

Other hazards Not determined.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

### 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration	Conc.	Classification
				Number	(%w/w)	
Copper (Copper fume)		7440-50-8			70 - 80%	
Aluminium oxide (Aluminium oxides total inhalable dust)		1344-28-1			10 - 20%	)

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.		
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.		
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.		
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). DO NOT INDUCE		

Revision 0
Revision date 2012-03-08

4.4. December of first aid was	Revision date 2012-03-00
4.1. Description of first aid mea	VOMITING.
4.2 Most important symptoms	and effects, both acute and delayed
Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.
<u> </u>	e medical attention and special treatment needed
Inhalation	Get medical advice/attention if you feel unwell.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.
SECTION 5: Firefighting me	asures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from	m the substance or mixture
	Burning produces irritating, toxic and obnoxious fumes.
5.3. Advice for firefighters	,
•	Wear self contained breathing apparatus and protective clothing.
SECTION 6: Accidental relea	ase measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
	Ensure adequate ventilation of the working area. Keep public away from danger area. Keep upwind. Wear suitable protective equipment.
6.2. Environmental precautions	
	Do not allow product to enter drains. Prevent further spillage if safe. Advise local authorities if large spills cannot be contained.
6.3. Methods and material for c	
	Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4. Reference to other sections	
	See section 13. DISPOSAL CONSIDERATIONS for further information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handli	ng
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
7.2. Conditions for safe storage	
	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
7.3. Specific end use(s)	
.,	No data is available on this product.
SECTION 8: Exposure contr	•
8.1. Control parameters	
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8.1.1. Exposure Limit Values

Revision 0 Revision date 2012-03-08

### 8.1.1. Exposure Limit Values

Aluminium oxide (Aluminium oxides respirable dust)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 4
, ,	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
Aluminium oxide (Aluminium oxides total inhalable dust)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
ŕ	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
Copper (Copper dusts and mists (as Cu))	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
Copper (Copper fume)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.2
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection	Wear suitable protective clothing.
measures	
Eye / face protection	Approved safety goggles.
Skin protection -	Wear suitable gloves.
Handprotection	
Skin protection - Other	Wear suitable protective equipment.
Respiratory protection	Wear suitable respiratory equipment when necessary.
Occupational exposure	Keep away from food, drink and animal feedingstuffs. Wash hands after handling the product.
controls	

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

State Solid
Colour Black
Odour Odourless
Relative density 7.5
Solubility Insoluble in water

### 9.2. Other information

No data available.

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data is available on this product.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data is available on this product.

### 10.4. Conditions to avoid

No data is available on this product.

### 10.5. Incompatible materials

No data is available on this product.

### 10.6. Hazardous decomposition products

No data is available on this product.

### SECTION 11: Toxicological information



Revision 0 Revision date 2012-03-08

11.	1.	Information	on	toxicological	effects
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Skin corrosion/irritation	May cause irritation to skin.	
Serious eye damage/irritation	May cause irritation to eyes.	
Respiratory or skin	No sensitizaton effects reported.	
sensitisation		
Germ cell mutagenicity	No mutagenic effects reported.	
Carcinogenicity	No carcinogenic effects reported.	
11.1.4. Toxicological Information		
	No data socialists	

No data available

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

No data is available on this product.

### 12.3. Bioaccumulative potential

No data is available on this product.

#### 12.4. Mobility in soil

Insoluble in water.

#### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

#### 12.6. Other adverse effects

No data is available on this product.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Do not empty into drains; dispose of this material and its container in a safe way.

### General information

Dispose of in compliance with all local and national regulations.

#### Disposal methods

Contact a licensed waste disposal company.

### **SECTION 14: Transport information**

#### ADR/RID

The product is not classified as dangerous for carriage.

#### **IMDG**

The product is not classified as dangerous for carriage.

### **IATA**

The product is not classified as dangerous for carriage.

### **SECTION 15: Regulatory information**

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Revision 0
Revision date 2012-03-08

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

### 15.2. Chemical safety assessment

No data available.

### **SECTION 16: Other information**

#### **Further information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.

