

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 22.06.2016

Version 4.2

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No.	600020+1
Product name	Immerse Tin
REACH Registration Number	n.a.
CAS-No.	n.a

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

Identified uses	Immerse Tinning
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### 1.3 Details of the supplier of the safety data sheet

Responsible Department	sales@megauk.com
Regional representation	Mega Electronics Ltd The Grip Ind Est. Linton, Cambridge, CB21 4XN. United Kingdom

1.4 Emergency telephone number	+44 (0) 1223 893900 (9am- 5pm) +49 (0) 6445 9256-0
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## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4, Oral, H302  
Carcinogenicity, Category 2, H351  
Reproductive toxicity, Category 2, H361d  
Chronic aquatic toxicity, Category 2, H411  
Skin sensitisation, Category 1, H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Classification (67/548/EEC or 1999/45/EC)**

Carc.Cat.3	Carcinogenic Category 3	R40
Repr.Cat.3	Toxic to Reproduction Category 3	R63
Xn	Harmful	R22
N	Dangerous for the environment	R51/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

*Hazard pictograms*



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## *Signal word*

Warning

## *Hazard statements*

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H361d Suspected of damaging the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

## *Precautionary statements*

### Prevention

P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.

### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

## **Reduced labelling (≤125 ml)**

### *Hazard pictograms*



## *Signal word*

Warning

## *Hazard statements*

H351 Suspected of causing cancer.  
H361d Suspected of damaging the unborn child.

## *Precautionary statements*

P281 Use personal protective equipment as required.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

*Index-No.* 612-082-00-0

## **2.3 Other hazards**

None known.

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## **SECTION 3. Composition/information on ingredients**

### **3.1 Substance**

### **3.2 Mixture**

## **Hazardous components (REGULATION (EC) No 1272/2008)**

### *Chemical Name (Concentration)*

CAS-No.	Registration number
<b>Thiourea (40%)</b>	
62-56-6	01-2119977062-37-

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For the full text of the H-Statements mentioned in this Section, see Section 16.

## **Hazardous components (REGULATION (EC) No 1272/2008)**

*Chemical Name (Concentration)*

CAS-No.            Registration number

**tin(II) chloride dihydrate (15-25%)**

10025-69-1        \*

For the full text of the H and R Statements see

Section 16.

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## **SECTION 4. First aid measures**

### **4.1 Description of first aid measures**

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### **4.2 Most important symptoms and effects, both acute and delayed**

irritant effects, Diarrhoea, Nausea, Vomiting, Stomach/intestinal disorders

### **4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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## **SECTION 5. Firefighting measures**

### **5.1 Extinguishing media**

*Suitable extinguishing media*

Water, Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **5.2 Special hazards arising from the substance or mixture**

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:

Sulphur oxides, nitrogen oxides, nitrous gases

### **5.3 Advice for firefighters**

*Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## *Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### **6.2 Environmental precautions**

Do not empty into drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

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## **SECTION 7. Handling and storage**

### **7.1 Precautions for safe handling**

#### *Advice on safe handling*

Work under hood. Do not inhale substance/mixture.

Observe label precautions.

#### *Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### *Storage conditions*

Tightly closed. Dry.

Recommended storage temperature see product label.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## **SECTION 8. Exposure controls/personal protection**

### **8.1 Control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

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## Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

### *Eye/face protection*

Safety glasses

### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves .

### *Other protective equipment*

protective clothing

### *Respiratory protection*

required when dusts are generated.

Recommended Filter type: Filter B-(P3)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Environmental exposure controls

Do not empty into drains.

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## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	Crystals
Colour	white
Odour	Stinks!
Odour Threshold	Not applicable
pH	6 - 8 at 50 g/l 20 °C

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Melting point	169 - 173 °C
Boiling point/boiling range	Not applicable, (decomposition)
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	at 20 °C Not applicable
Relative vapour density	No information available.
Density	1.405 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	137 g/l at 20 °C
Partition coefficient: n-octanol/water	log Pow: -0.92 (20 °C) OECD Test Guideline 107 Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

Ignition temperature	440 °C Dust
Bulk density	640 kg/m <sup>3</sup>

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

## 10.3 Possibility of hazardous reactions

Risk of explosion with:

chlorates

Violent reactions possible with:

acryl aldehyde

Exothermic reaction with:

Nitric acid, hydrogen peroxide, Acrolein, Strong oxidizing agents, Strong acids and strong bases

## 10.4 Conditions to avoid

Strong heating (decomposition).

## 10.5 Incompatible materials

no information available

## 10.6 Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD50 Rat: 1,750 mg/kg (External MSDS)

Symptoms: Nausea, Vomiting, Diarrhoea, Stomach/intestinal disorders  
absorption

#### *Acute inhalation toxicity*

Symptoms: Possible damages:, May cause irritation of respiratory tract.

#### *Acute dermal toxicity*

LD50 Rabbit: > 2,800 mg/kg (External MSDS)

#### *Skin irritation*

Rabbit

Result: No irritation

OECD Test Guideline 404

#### *Eye irritation*

Rabbit

Result: slight irritation

OECD Test Guideline 405

#### *Sensitisation*

Sensitisation possible in predisposed persons.

#### *Germ cell mutagenicity*

#### *Genotoxicity in vitro*

Ames test

Result: negative  
(External MSDS)

#### *Carcinogenicity*

This information is not available.

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### *Reproductive toxicity*

This information is not available.

### *Teratogenicity*

This information is not available.

### *CMR effects*

Carcinogenicity:

Suspected of causing cancer.

Teratogenicity:

Suspected of damaging the unborn child.

### *Specific target organ toxicity - single exposure*

This information is not available.

### *Specific target organ toxicity - repeated exposure*

This information is not available.

### *Aspiration hazard*

This information is not available.

## 11.2 Further information

Systemic effects:

Changes in the blood count

Damage to:

thyroid, Bone marrow

This substance should be handled with particular care.

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## SECTION 12. Ecological information

### 12.1 Toxicity

#### *Toxicity to fish*

LC50 Danio rerio (zebra fish): 10,000 mg/l; 96 h (External MSDS)

#### *Toxicity to daphnia and other aquatic invertebrates*

EC50 Daphnia magna (Water flea): 35 mg/l; 48 h (IUCLID)

#### *Toxicity to algae*

IC50 Desmodesmus subspicatus (green algae): 3.8 - 10 mg/l; 72 h (IUCLID)

#### *Toxicity to bacteria*

EC10 Pseudomonas putida: 1,265 mg/l; 18 h (IUCLID)

### 12.2 Persistence and degradability

#### *Biodegradability*

0 %; 34 d

OECD Test Guideline 301C

Not readily biodegradable.

#### *Biochemical Oxygen Demand (BOD)*

13 mg/g (5 d)

(IUCLID)

### 12.3 Bioaccumulative potential

#### *Partition coefficient: n-octanol/water*

log Pow: -0.92 (20 °C)

OECD Test Guideline 107

Bioaccumulation is not expected.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment



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PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6 Other adverse effects

*Additional ecological information*

Discharge into the environment must be avoided.

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## SECTION 13. Disposal considerations

*Waste treatment methods*

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 UN number UN 3077  
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIOUREA)  
14.3 Class 9  
14.4 Packing group III  
14.5 Environmentally hazardous yes  
14.6 Special precautions for user  
Tunnel restriction code E  
Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

14.1 UN number UN 3077  
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIOUREA)  
14.3 Class 9  
14.4 Packing group III  
14.5 Environmentally hazardous yes  
14.6 Special precautions for user  
Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

### Sea transport (IMDG)

14.1 UN number UN 3077  
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIOUREA)  
14.3 Class 9  
14.4 Packing group III  
14.5 Environmentally hazardous yes

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## 14.6 Special precautions for user

EmS

F-A S-F

Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

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

Not relevant

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## SECTION 15. Regulatory information

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

#### *EU regulations*

Major Accident Hazard

96/82/EC

Legislation

Dangerous for the environment

9b

Quantity 1: 200 t

Quantity 2: 500 t

Occupational restrictions

Take note of Dir 94/33/EC on the protection of young people at work.

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1$  % (w/w).

#### *National legislation*

Storage class

10 - 13

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H361d Suspected of damaging the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.

##### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention



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EC-No.	200-543-5	EC Label
<b>Reduced labelling (≤125 ml)</b>		
Symbol(s)	 Xn  N	Harmful Dangerous for the environment
R-phrases	22-40-63	Harmful if swallowed. Limited evidence of a carcinogenic effect. Possible risk of harm to the unborn child.
S-phrases	36/37	Wear suitable protective clothing and gloves.

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

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

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