

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifiers**

Product name: **ZINC GRANULATED**

CAS-No.: **7440-66-6**

Product Number: **R04122**

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

Identified uses: Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR,

UNITED KINGDOM

Telephone: +44 (0)845 1200 506 Fax: +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

**1.4 Emergency telephone number**

Emergency Phone #: **+44 (0)845 1200 506**

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**According to Regulation (EC) No1272/2008;** Self-heating substances (Category 1), Substances, which in contact with water, emit flammable gases (Category 2)

**This substance is not classified as dangerous according to Directive 67/548/EEC.**

**2.2 Label elements**

Pictogram



Signal word

Danger

**Hazard statement(s):** H251 Self-heating: may catch fire. H261 In contact with water releases flammable gases.

**Precautionary statement(s):** P231 + P232 Handle under inert gas. Protect from moisture. P235 + P410 Keep cool. Protect from sunlight. P422 Store contents under inert gas.

**2.3 Other hazards** – no data available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

**Zinc powder (pyrophoric)**

Formula: **Zn**

|                   |              |
|-------------------|--------------|
| Molecular Weight: | 65.39        |
| CAS-No.:          | 7440-66-6    |
| EC-No.:           | 231-175-3    |
| Index-No.:        | 030-001-00-1 |

#### 4. FIRST AID MEASURES

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

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2 *Most important symptoms and effects, both acute and delayed:*** no data available

**4.3 *Indication of immediate medical attention and special treatment needed:*** no data available

#### 5. FIRE-FIGHTING MEASURES

##### 5.1 *Extinguishing media*

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>) Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry powder

**5.2 *Special hazards arising from the substance or mixture:*** no data available

**5.3 *Precautions for fire-fighters:*** Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 *Further information:*** Extinguishing media which shall not be used for safety reasons: Water. The product itself does not burn.

#### 6. ACCIDENTAL RELEASE MEASURES

**6.1 *Personal precautions, protective equipment and emergency procedures:*** Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**6.2 *Environmental precautions:*** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 *Methods and materials for containment and cleaning up:*** Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

**6.4 *Reference to other sections:*** For disposal see section 13.

#### 7. HANDLING AND STORAGE



- j) Upper/lower flammability or explosive limits: no data available  
k) Vapour pressure: 1 hPa at 487 °C  
l) Vapour density: no data available  
m) Relative density: 7.133 g/mL at 25 °C  
n) Water solubility: no data available  
o) Partition coefficient: n-octanol/water: 5  
p) Autoignition temperature: no data available  
q) Decomposition temperature: no data available  
r) Viscosity: no data available  
s) Explosive properties: no data available  
t) Oxidizing properties: no data available  
**9.2 Other safety information:** no data available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** no data available

**10.2 Chemical stability:** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions:** Reacts violently with water.

**10.4 Conditions to avoid:** Exposure to moisture.

**10.5 Incompatible materials:** Strong acids and oxidizing agents

**10.6 Hazardous decomposition products:** formed under fire conditions. - Zinc/zinc oxides

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure:** no data available

**Additional Information:** RTECS: no data available

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity:** no data available

**12.2 Persistence and degradability:** no data available

**12.3 Bioaccumulative potential:** no data available

**12.4 Mobility in soil:** no data available

**12.5 Results of PBT and vPvB assessment:** no data available

**12.6 Other adverse effects:** no data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:** no data available

**15.2 Chemical Safety Assessment:** no data available

## 16. OTHER INFORMATION

H251 Self-heating: may catch fire.

H261 In contact with water releases flammable gases.

Self-heat. Self-heating substances

Water-react Substances, which in contact with water, emit flammable gases