

## **CARD OF CHARACTERISTIC FEATURES**

Date of formation / date of updating: 01.10.2003 / 01.07.2008

### **1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND IDENTIFICATION OF ENTERPRISE**

#### **1.1. Identification of substance or preparation**

Calcic flux – PZS

#### **1.2. Application of substance / preparation**

Calcic flux PZS is used as a refining slag for processing of steel.

#### **1.3. Identification of enterprise**

Huta „Łaziska” S.A.  
ul. Cieszyńska 23  
43-170 Łaziska Górne

#### **1.4. Emergency phone number**

Phone: +48 (32) 3247100, +48 (32) 2241500  
Fax: +48 (32) 2241523

### **2. IDENTIFICATION OF THREATS**

By observing the storage recommendations (point 7), the product does not present any threats to the health and environment.

Inflammable and harmful gases may be formed in contact with humidity, acids or bases (point 10).

Dust suspended in the air, may under certain conditions, be the cause of explosion.

### **3. COMPOSITION / INFORMATION ON COMPONENTS**

Dangerous components – none

Symbol – none

Return of R and S – none

Content of components:

Al <sub>2</sub> O <sub>3</sub>	35,0 – 50,0 %
CaO	30,5 – 45,0 %
SiO <sub>2</sub>	max - 14,0 %
Na <sub>2</sub> O + K <sub>2</sub> O	max - 1,0 %
MnO + FeO	max - 1,5 %

### **4. FIRST AID**

On contact with skin; rinse with water with addition of mild detergent.

On contact with eyes; rinse eyes with water,

On consumption; cause vomiting

On inhalation; take out person into fresh air.

On obstinate ailments, or in case of poisoning (point 11), call for medical protection, and take out person from area of dust occurrence.

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### 5. LINE OF CONDUCT IN CASE OF FIRE

Extinguishing media; dry sand,  $\text{CO}_2$ , dry extinguishing powder.

Dry material in a lumpy form and in the form of a granulated product is not a combustible substance.

Dust mixed with air may cause explosion under certain conditions.

### 6. LINE OF CONDUCT IN CASE OF UNINTENDED LIBERATION INTO THE ENVIRONMENT

The material in the form of dust should be kept in appropriate containers. Moistened products should be separated from dry ones and after their collection they should not be kept in closed containers.

### 7. LINE OF CONDUCT WITH SUBSTANCE / PREPARATION AND ITS STORAGE

#### 7.1. Line of conduct with substance / preparation

Avoid creation and accumulation of dust and also its inhalation.

Avoid sources of ignition at places with high dust concentrations.

#### 7.2. Storage

in a dry and well ventilated place, far from acids and bases.

### 8. INSPECTION OF EXPOSURE AND MEANS OF INDIVIDUAL PROTECTION

At a contents of free crystalline silica ( $\text{SiO}_2$  WWK) below 2%, the NDS of dust is equal to  $10 \text{ mg/m}^3$  (Regulation of the Minister of Labour and Social Policy from the 29<sup>th</sup> November 2002 in the matter of the highest permissible concentrations and intensities of agents, which are harmful to the health in the place of employment (Journal of Law No. 217, pos. 1833).

- a) Protection of airways  
ensure good ventilation and at places of insufficient ventilation use dust - masks
- b) Protection of hands  
use protective gloves
- c) Protection of eyes  
use goggles

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. General information

Form - lumpy material, granulated product,  
Colour - different shades in grey colour  
Odour - none  
Solubility - is not soluble in water, is not hygroscopic  
- stability in a lumpy state

#### 9.2. Important information concerning the health, safety and environment

Melting point  $1380 \div 1410^\circ\text{C}$  in powdered form and  $1425 \div 1440^\circ\text{C}$  in solid form  
Special gravity  $2,40 \div 2,70 \text{ g/cm}^3$  at a temperature of  $1500 \div 1650^\circ\text{C}$

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### 10. STABILITY AND REACTIVITY

#### 10.1. Conditions to be avoided

At places with high dust concentrations avoid spark formation and other sources of ignition.

#### 10.2. Factors to be avoided

Avoid contact with such substances as; water/humidity, acids, bases.

### 11. TOXICOLOGICAL INFORMATION

Inhalation; fine dust may irritate and dry up mucous membranes.

On contact with skin; dust may irritate skin.

On contact with eyes; dust may irritate and dry up eyes.

On deglutition abdominal pains may occur.

### 12. ECOLOGICAL INFORMATION

The product is not described as dangerous for the environment.

Eco – toxicity: CL50 / DL50 is not defined, it has no meaning for inorganic and insoluble substances.

### 13. LINE OF CONDUCT WITH DISCARDS

The discard from the calcic fluxing agent PZS is not classified as a dangerous discard.

The material should be recovered and recycled for processing, where possible.

The line of conduct with the discards should be subordinated to the requirements of the Statute from the 27<sup>th</sup> April 2001 on Discard, Journal of Law No. 628, with later amendments and Statute from the 27<sup>th</sup> April 2001, Law on the Environmental Protection (Journal of Law No. 62, pos. 627, with later amendments)

### 14. INFORMATION ON THE TRANSPORT

The chemical composition (described in point 3) testifies to the fact, that the shipment and the materials in the packaged form or in bulk are not dangerous according to the marking IMDG, ICAO/IATA and ADR/RID.

### 15. INFORMATION ON LEGAL RULES

Classification of product and marking:

Symbol – is not subject to classification

return R – none

return S - none

Regulation of the Minister of Health from the 13th November 2007 on the card of characteristic features (Journal of Law 2007, No. 215, pos. 1588).

Regulation (WE) No. 1907/2006 of the European Parliament and Council from the 18<sup>th</sup> December 2006.

Regulation of the Minister of Labour and Social Policy from the 29th November 2002 on the highest permissible concentrations and intensities of agents harmful to the health at the work place (Journal of Law No. 217, pos. 1833).

Statute from the 27th April 2001 on discards (Journal of Law No. 62 pos. 628 with later amendments).

Statute from the 27<sup>th</sup> April 2001, Law on Environmental Protection (Journal of Law No. 62 pos. 627 with later amendments).

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Regulation of the Minister of Health from the 28th September 2005 on the list of dangerous substances together with their classification and marking (Journal of Law 05 No. 201 pos. 1674).  
Regulation of the Minister of Health from the 2<sup>nd</sup> September 2003 on the criteria and method of classification of chemical substances (Journal of Law 2003 No. 171 pos. 1666 with later amendments).

### **16. OTHER INFORMATION**

The present card is the property of the Huta "Łaziska" S.A. Steel – Works "Łaziska" Joint Stock Company and gives a description of the product of Steel – Works on the ground of the knowledge and experience owned by the plant.