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## **HEALTH & SAFETY DATA SHEETS FOR SOYER ENAMEL POWDERS**

### **DESCRIPTION:**

#### **601 Copper Flux Transparent Enamel**

(ENAMEL FOR USE ON COPPER, SILVER OR GOLD OR COLOURANT FOR GLASSWARE)

### **CHEMICAL COMPOSITION AND COMPONENTS OF PRODUCT:**

Chemical composition: *Preparation - chemical glass chippings number CAS 65997 -18 - 4 obtained by melting the inorganic compounds at high temperatures*

Substances used in the production that may involve dangers:

<i>Lead compound in Pb number CAS 7439-92-1</i>	<i>-40%</i>
<i>Manganese Dioxide in MnO<sub>2</sub> number CAS 1313-13-9</i>	<i>traces @ most of 0.1%</i>
<i>Antimony compounds in Sb number CAS 7440-36-0</i>	<i>traces @ most of 0.2%</i>

### **DESCRIPTION OF RISKS:**

Main Risks:

*Lead and it's mineral compounds may cause poisoning on humans - known as lead poisoning and is also suspected of presenting a risk in pregnancy on the foetus. Manganese Dioxide causes nervous or respiratory disorders in humans Antimony and it's derivatives can cause diseases in humans*

Specific Risks:

**R61:** *Risk of harmful effects on the child during pregnancy*  
**R62:** *Possible decrease in fertility*  
**R20/22:** *Dangers caused by inhalation or ingestion*  
**R33:** *Danger of cumulative effects*

### **FIRST AID:**

Inhalation:

*Take the affected person away from the place where they were exposed to the substance, make them breathe fresh air and ensure they are kept under medical supervision*

Skin Contact:

*Thoroughly clean the skin with soap and water*

Contact with eyes:

*Immediately rinse the eyes thoroughly with water for at least 15 minutes and consult an eye specialist*

Ingestion:

*Immediately consult a doctor (show him the relevant Health & Data Safety sheet) If need be, contact the nearest Anti poison centre*

### **FIRE PROTECTION MEASURES:**

Solid and inert product:

*Non Flammable*

Suitable means of extinguishment:

*Water*

Unsuitable means of extinguishment:

*None*

Specific dangers:

*Escape of dangerous gas during the thermal decomposition*

**AVOID DISPOSAL OF THE WATER USED IN EXTINGUISHMENT INTO THE ENVIRONMENT**

### **MEASURES TO BE TAKEN IN THE CASE OF ACCIDENTAL SPILLAGE**

Personal precautions:

*Do not inhale the dust or powder*

Precautions to protect the environment:

*Do not spill the substance into the sewerage system or environment*

Cleaning method:

*In the event of a spill, sweep the substance away with dustpan and brush, being careful not to create excess dust, whilst wearing a dust mask. Rinse the contaminated area with water.*

### **HANDLING AND STORAGE OF THE PRODUCT**

Handling:

*Do not eat and drink in places susceptible of presenting dangers due to lead  
The product may only be handled by persons who have received a technical training  
Ensure a good ventilation of the working place and air filtration in places where dust or vapour are emitted excessively.*

Storage:

*Store in an airtight container that is safe from humidity  
Keep away from food and drinks, including pet food  
Plastic is a suitable packaging material*

### **EXPOSURE CONTROL / PERSONAL SAFETY**

Technical Advice:

*Staff who have prolonged handling or usage of compounds of lead should have regular blood tests*

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Antimony and it's compounds (in Sb): 0.5mg/m<sup>3</sup>

Personal protection equipment: *Respiratory protection: Dust Mask P3*  
*Protection of hands: PVC or latex gloves*  
*Eye protection: Goggles*  
*Skin and body protection: Appropriate protective clothes*

Specific Hygiene Measures: *Change all soiled clothes and shoes. Take care of personal hygiene wash all exposed parts of the body and rinse out the mouth before food is consumed.*

### PHYSICAL & CHEMICAL PROPERTIES

Appearance: *Physical state: solid powder*  
*Form: fine powder*  
*Colour: white*  
*Odour: odourless*

Melting Temperature: 840 -900 °C

PH Value: *not determined*

Flash Point: *not applicable*

Characteristics of explosion: *not applicable*

Density: *not determined*

Solubility: *hardly soluble in water, slightly soluble in acids*

### STABILITY AND REACTIVITY

Stability: *mineral product that resists high temperatures*

Dangerous reactions: *no dangerous reactions are known as long as the product is used in the normal way*

Dangerous substances that are produced during decomposition: *none to our knowledge if the product is used in the normal way*

### TOXICOLOGICAL INFORMATION

*Lead and its compounds cause a disease known as lead poisoning and is listed as occupational illnesses number 1*  
*Manganese Dioxide causes diseases that are listed as occupational illnesses number 39*  
*Antimony and it's compounds cause diseases that are listed as occupational illnesses number 73*

Ways of penetration into the body: *respiratory tract: very fine dust*  
*digestive tract: coarse dust*

Acute poisoning: *exceptional in the field of profession where it only occurs as a result of accidents or misuse of the product*

Chronic poisoning: *Often of a industrial origin. The effects only appear after long exposure and can be revealed by laboratory examinations*

Local Effects: **the negative effects of lead manifest themselves by:**  
*disturbances of the blood (anaemia), renal problems (chronic renal insufficiency), digestive problems (abdominal pain, constipation, sometimes accompanied by hypertension)*  
**the negative effects of manganese manifest themselves by:**  
*nervous disorder (chronic manganism), respiratory disorder ( manganese caused pneumonia) and by irritation of the mucous membranes (stomatitis, rhinitis)*  
**the negative effects of antimony manifest themselves by:**  
*irritations of the mucous membranes (irritation of lungs, bronchial tract and superior respiratory tract), symptoms of skin diseases (irritation, rashes) and symptoms of lung disease (stibiose)*

### ECOLOGICAL INFORMATION

Freedom of movement: *no data*

Persistence / sewerage: *can be separated mechanically in a sewage plant*

Biological accumulation: *the compounds of lead are biologically accumulated in the living organism*

Ecological toxicity: *no experimental examinations. Neither spill the substance into the sewage system nor into the environment. The disposal must be effected in waste disposal sites that are specialised in dangerous products*



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Sewages: *a limit of 1mg of lead per litre of sewage should not be exceeded*  
*a limit of 1mg of antimony per litre of sewage should not be exceeded*  
*the disposal of manganese into the sewage system and into the atmosphere must be limited*

### **INDICATIONS FOR WASTE DISPOSAL**

Waste disposal of residues: *the product is insoluble. Eliminate without causing dust*  
*If it can't be recycled, it has to be disposed in accordance to the local laws*  
*and instructions in force with your local authority*

Waste disposal of soiled packaging: *Incinerate, never use the packaging for another product*

### **INFORMATION ON REGULATIONS**

Regulations of the European Union:  
*information leaflet on security established in accordance with the directive 91/155/CEE of 5th March*  
*1991 labelling in accordance with the directive 67/548/CEE and its adaptations*  
*protection of workers in accordance with the directives 82/605/CEE of 28th July 1982 and 92/85/CEE*  
*of 19th October 1992*

### **SECURITY REGULATIONS**

S1/2: Keep out of the reach of children  
S53: Avoid prolonged exposure to the product. Read the safety data sheet before use  
S45: In the case of an accident or an occurring disease, consult a doctor immediately with a copy of this sheet  
S25 Avoid any contact with the eyes

Special regulation on the labelling of products that are made for the public using this enamel powder:  
Special Labelling: **CONTAINS LEAD. DO NOT USE THIS PRODUCT ON OBJECTS THAT ARE SUSCEPTABLE TO BEING CHEWED OR SUCKED BY CHILDREN**

*This leaflet is no guarantee for the quality and specific characteristic of this product. It completes the directions of use but it does not replace them. The information it contains is based on the state of our knowledge when this document was created and they are given in good faith. We would also like to draw the users attention to the risks that are run if a product is used for another purpose than for the one it is created for.*