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HEALTH & SAFETY DATA SHEETS FOR SOYER ENAMEL POWDERS

DESCRIPTION: **Light Green Opaque 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>Arsenic compounds in As number CAS 7440-38-2</i>	<i>-5%</i>
<i>Cryolithe in Na3AlF6 number CAS 15096-52-3</i>	<i>traces @ most of 0.5%</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. Arsenic and it's mineral compounds can cause intoxication on humans. Cryolithe and its derivatives can cause intoxication on humans*

Specific Risks: **R61:** *Risk of harmful effects on the child during pregnancy*
R62: *Possible decrease in fertility*
R48/23/25: *Toxic if it's inhaled or ingested, in the case of prolonged exposure to the product, risk of serious damage to health* **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*

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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Control parameters: *Average limiting values for permissible exposure*

Lead (inorganic compounds, dust and vapour in Pb):	0.15mg/m ³
Arsenic (in As):	0.2mg/m ³
Cryolithe (in Na ₃ A1F ₆):	2.5mg/m ³

Personal protection equipment:

*Respiratory protection: Dust Mask P3
Protection of hands: PVC or latex gloves
Eye protection: Goggles*

Specific Hygiene Measures:

*Skin and body protection: Appropriate protective clothes
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: green
Odour: odourless*

Melting Temperature:

750 -800 °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 Arsenic and its compounds cause diseases that are listed as occupational illnesses number 20, 20A and 21

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 arsenic manifest themselves by:

skin diseases, irritations of the mucous membranes, loss of hair, the appearance of white and grey transversal line on the nails, a poisoning of the peripheral nervous system beginning in the lower limbs and by disturbances of the blood

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
the disposal of arsenic into the sewage system and into the atmosphere must be limited the
disposal of cryolithe 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
- S22: Do not inhale any dust
- S28: In the case of skin contact, immediately rinse thoroughly with water
- S20 / 21: Do not eat. Drink or smoke while using this product
- S37: Wear appropriate protective gloves

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.