



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product name : Chloranil

Product Number : 23280

Brand : Fluka

## 2. HAZARDS IDENTIFICATION

### Risk advice to man and the environment

Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula :  $C_6Cl_4O_2$

Molecular Weight : 245,88 g/mol

CAS-No. EC-No. Index-No. Classification Concentration

### Tetrachloro-p-benzoquinone

118-75-2 204-274-4 602-066-00-1 Xi, N, R36/38 - R50/53 -

## 4. 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

Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**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.

**Methods for cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal protective equipment**

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form crystalline

Colour dark yellow

**Safety data**

pH no data available

Melting point 295 - 296 °C

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

## **10. STABILITY AND REACTIVITY**

### **Storage stability**

Stable under recommended storage conditions.

### **Materials to avoid**

Strong oxidizing agents, Strong bases

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

LD50 Oral - rat - 4.000 mg/kg

LC50 Inhalation - rat - 4 h - 2.485 mg/m<sup>3</sup>

Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Structural or functional change in trachea or bronchi. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

### **Irritation and corrosion**

no data available

### **Sensitisation**

no data available

### **Chronic exposure**

Carcinogenicity - mouse - Oral

Tumorigenic:Neoplastic by RTECS criteria. Liver:Tumors.

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.

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Potential Health Effects**

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

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

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

**Target Organs** Liver,

### **Additional Information**

RTECS: DK6825000

## **12. ECOLOGICAL INFORMATION**

### **Elimination information (persistence and degradability)**

no data available

**E cotoxicity effects**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0,01 - 1 mg/l - 96 h

**Further information on ecology**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****ADR/RID**

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tetrachloro-pbenzoquinone)

**IMDG**

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tetrachloro-pbenzoquinone)

Marine pollutant: Severe marine pollutant

**IATA**

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Tetrachloro-p-benzoquinone)

**15. REGULATORY INFORMATION****Labelling according to EC Directives**

EC Label

Hazard symbols

Xi Irritant

N Dangerous for the environment

R-phrase(s)

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S37 Wear suitable gloves.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

**16. OTHER INFORMATION****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sparchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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