

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

Product name : 4-Chloro-2-iodoaniline

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Acute toxicity, Oral (Category 3)

Skin irritation (Category 2)

Serious eye damage (Category 1)

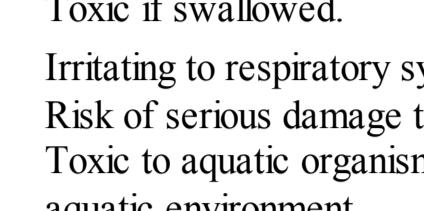
Specific target organ toxicity - single exposure (Category 3)

According to European Directive 67/548/EEC as amended.

Toxic if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

Toxic if swallowed.

H301

Causes skin irritation.

H315

Causes serious eye damage.

H318

May cause respiratory irritation.

H335

Precautionary statement(s)

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P261

Wear protective gloves/ eye protection/ face protection.

P280

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P301 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305 + P351 + P338

Hazard symbol(s)

Toxic

T

Dangerous for the environment

N

R-phrase(s)

Toxic if swallowed.

R25

Irritating to respiratory system and skin.

R37/38

Risk of serious damage to eyes.

R41

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

R51/53

S-phrase(s)

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S26

Wear suitable protective clothing, gloves and eye/face protection.

S36/37/39

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S45

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

S61

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₆H₅ClIN

Molecular Weight : 253.47 g/mol

CAS-No.	EC-No.	Classification	Concentration
4-Chloro-2-iodoaniline 63069-48-7	263-839-3	Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H301, H315, H318, H335 T, N, R25 - R37/38 - R41 - R51/53	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

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. Evacuate personnel to safe areas.

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 and materials for containment and cleaning up

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

7. HANDLING AND STORAGE

Precautions for safe 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.

Conditions for safe storage

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

Store under inert gas. Air and light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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

Face shield and 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form solid

Safety data

pH no data available

Melting point 39 - 43 °C - lit.

Boiling point no data available

Flash point > 109 °C - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

Partition coefficient: log Pow: 3,159

n-octanol/water

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

acids, Acid chlorides, Acid anhydrides, Chloroformates, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen iodide

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

GERM cell mutagenicity

no data available

Carcinogenicity

no data available

IARC:

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

Reproductive toxicity

no data available

Inhalation - Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Inhalation - Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

May be harmful if inhaled. Causes respiratory tract irritation.

Toxic if swallowed. Causes respiratory tract irritation.

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

Causes serious eye irritation.

Signs and symptoms of exposure

Onset of symptoms may be delayed 2 to 4 hours or longer. Look for cyanosis, onset of methemoglobin which in sufficient concentration causes

Signs and symptoms of exposure

Signs and symptoms of exposure