# AK Scientific, Inc.

# **Safety Data Sheet**

5-Chloro-2-nitrobenzaldehyde

#### 1. Identification

Product name 5-Chloro-2-nitrobenzaldehyde

Catalog# L811

IUPAC name 5-chloro-2-nitrobenzaldehyde

Product use/Restrictions on use For laboratory research use. Not for drug or household use.

Company AK Scientific, Inc.

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#### 2. Hazards Identification

#### **GHS Classification**

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Skin sensitization (Category 1)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1)

#### **Pictogram**



#### Signal word

Danger

P280

P301 + P312

P302 + P352

P304 + P340

P305 + P351 + P338

#### Hazard statement(s)

H302
H315
Causes skin irritation.
H317
May cause an allergic skin reaction.
H318
Causes serious eye damage.
H335
May cause respiratory irritation.
Very toxic to aquatic life with long lasting effects.

#### **Precautionary statement(s)**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face

protection.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if

you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

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

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P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see supplemental first aid instructions on this label).

Rinse mouth.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Collect spillage.

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

Store locked up.

Dispose of contents/container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC) or not covered by GHS

None

P330

P391

P405

P501

P403 + P233

### 3. Composition/Information on Ingredients

Synonyms: No data available. CAS#: [6628-86-0]

Purity: 97% EC#: 229-614-9

#### 4. First Aid Measures

General information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid. **Skin contact:** Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

**Ingestion:** Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see headings 2 and 11. Indication of any immediate medical attention and special treatment needed: No further information available.

### **5. Fire Fighting Measure**

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical: Hydrogen chloride, Nitrogen oxides, Carbon oxides

Advice for firefighters: As in any fire, wear a MSHA/NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

## 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to heading 8.

**Environmental precautions:** Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. Also, see heading 13.

## 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition.

## 8. Exposure Controls/Personal Protection

**Exposure limits** 

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OSHA PEL: No data available.

NIOSH REL: No data available.

ACGIH TLV: No data available.

**Appropriate engineering controls:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate ventilation to keep airborne concentrations low.

#### Personal protection

Eyes: Wear chemical splash goggles. Hand: Wear protective gloves.

Skin and body: Wear protective lab coat and boots.

Respiratory: Use NIOSH/MSHA or CEN approved respirator.

## 9. Physical and Chemical Properties

Physical State: Light yellow solid
Molecular Formula: C7H4ClNO3
Molecular Weight: 185.56

Odor: No data available.

pH: No data available.

Boiling Point Range: No data available.

Freezing/Melting Point: 75-77 ℃

Flash Point: No data available. No data available. **Evaporation Rate:** Flammability (solid, gas): Please see section 2. Explosive limits: No data available. Vapor Pressure: No data available. No data available. Vapor Density: Solubility: No data available. Relative Density: No data available. Refractive Index: No data available. Volatility: No data available. No data available. Auto-ignition temperature: Decomposition Temperature: No data available.

## 10. Stability and Reactivity

Partition Coefficient:

Reactivity No data available.

Chemical stability Stable under recommended temperatures and pressures.

No data available.

Possibility of hazardous reactions No data available.

Conditions to avoid Dust generation.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Hydrogen chloride, Nitrogen oxides, Carbon oxides

## 11. Toxicological Information

RTECS# No data available.

Acute toxicity No data available.

Routes of exposure Inhalation, eye contact, skin contact, ingestion.

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Symptoms related to the physical, Skin contact may result in inflammation characterized by itching, scaling, reddening,

chemical and toxicological characteristics blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage.

Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result

in serious illness or death.

Carcinogenicity

IARC Not classified.

NTP Not listed.

OSHA Not listed.

Acute toxic effects Inflammation of the eye is characterized by redness, watering, and itching. Skin

inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

#### 12. Ecological Information

Ecotoxicity
No data available.

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

No data available.

No data available.

### 13. Disposal Considerations

**Disposal of waste:** Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when disposing of the substance.

**Disposal of packaging:** Do not reuse containers. Dispose of as unused product.

# 14. Transport Information

DOT (U.S.)

UN number Not applicable.
UN proper shipping name Not applicable.
Transport hazard class(es) Not applicable.
Packing group Not applicable.

#### 15. Regulatory Information

TSCA Chemical Inventory: This product is NOT on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied

solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720 et seq. The health risks have not been fully determined. Any information that is or

becomes available will be supplied on an SDS sheet.

California Proposition 65: Not listed. EC#: 229-614-9

NFPA rating: **Health:** 3

Flammability: 0
Instability: 0

## 16. Additional Information

Revision Date: 12/22/2014 Printed Date: 2/11/2015

#### Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.