AK Scientific, Inc.

Safety Data Sheet

2-Nitrobenzaldehyde

1. Identification

Product name 2-Nitrobenzaldehyde

Catalog#

IUPAC name 2-Nitrobenzaldehyde

Product use/Restrictions on use For laboratory research and manufacturing use.

Company AK Scientific, Inc.

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2. Hazards Identification

GHS Classification

Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A)

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

Acute aquatic toxicity (Category 3) Chronic aquatic toxicity (Category 3)

Pictogram



Signal word

Warning

Hazard statement(s)

Harmful if swallowed. H302 H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H412 Harmful 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.

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. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see supplemental first aid instructions on this

label).

P301 + P312

P302 + P352

P304 + P340

P305 + P351 + P338

P312 P321

P280

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P330 P332 + P313P337 + P313

P362 P403 + P233

P405 P501 Rinse mouth.

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. 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

3. Composition/Information on Ingredients

Synonyms: o-Nitrobenzaldehyde

CAS#: [552-89-6] Purity: 98% EC#: 209-025-3

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: 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, wellventilated area away from incompatible substances. Keep away from sources of ignition. Air sensitive. Light sensitive. Moisture sensitive.

8. Exposure Controls/Personal Protection

Exposure limits

OSHA PEL: No data available. NIOSH REL: No data available. AK Scientific, Inc. Page 3 of 5

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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

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

Skin and body: Wear protective lab coat and boots.

Use NIOSH/MSHA or CEN approved respirator. Respiratory:

9. Physical and Chemical Properties

Physical State: White to light yellow crystalline powder

Molecular Formula: C7H5NO3 Molecular Weight: 151.12

No data available. Odor: pH: No data available. 153°C (23mmHg) **Boiling Point Range:**

Freezing/Melting Point: 41-48°C >110°C Flash Point:

Evaporation Rate: No data available. 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. Partition Coefficient: No data available.

10. Stability and Reactivity

Reactivity No data available.

Chemical stability Stable under recommended temperatures and pressures.

Possibility of hazardous reactions No data available.

Conditions to avoid Dust generation. Light. Air. Moisture and water.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Nitrogen oxides, Carbon oxides

11. Toxicological Information

RTECS# CU7300000

Acute toxicity LD50 Oral-Mouse-600mg/kg

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

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

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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.

Other adverse effects 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.

Proper shipping name Not applicable.

Transport hazard class(es) Not applicable.

Packing group Not applicable.

IATA

UN number Not applicable.

Proper shipping name Not applicable.

Transport hazard class(es) Not applicable.

Packing group Not applicable.

15. Regulatory Information

TSCA Chemical Inventory: This product is 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#: 209-025-3

NFPA rating: **Health:** 2

Flammability: 1
Instability: 0

16. Additional Information

Revision Date: 4/27/2015 Printed Date: 1/29/2016

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

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