

## \*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

4-Cyanobenzaldehyde, 98%

## \*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: 4-Cyanobenzaldehyde, 98%

Catalog Numbers:

11072-0000, 11072-0050, 11072-0250, 11072-1000

Synonyms:

Company Identification (Europe): Acros Organics BVBA  
 Janssen Pharmaceuticalaan 3a  
 2440 Geel, Belgium

Company Identification (USA): Acros Organics  
 One Reagent Lane  
 Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

## \*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

| CAS#     | Chemical Name       | %   | EINECS#   | Haz Symbols | Risk Phrases |
|----------|---------------------|-----|-----------|-------------|--------------|
| 105-07-7 | 4-Cyanobenzaldehyde | 98% | 203-267-3 |             |              |

Hazard Symbols: XN

Risk Phrases: 20/21/22

## \*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed. Light sensitive.

## Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. Harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation:

Harmful if inhaled. May cause respiratory tract irritation.

Chronic:

Not available.

## \*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

## \*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

## General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

## Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## \*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section 8.

## Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

## \*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

## Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

## Storage:

Store in a cool, dry place. Store in a tightly closed container.

## \*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

## Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

## Personal Protective Equipment

## Eyes:

Wear chemical goggles.

## Skin:

Wear appropriate protective gloves to prevent skin exposure.

## Clothing:

Wear appropriate protective clothing to prevent skin exposure.

## Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## \*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

|                            |                        |
|----------------------------|------------------------|
| Physical State:            | Crystalline powder     |
| Color:                     | white - slightly beige |
| Odor:                      | Not available.         |
| pH:                        | Not available.         |
| Vapor Pressure:            | Not available.         |
| Viscosity:                 | Not available.         |
| Boiling Point:             | 133 deg C @12mmHg      |
| Freezing/Melting Point:    | 98 - 103 deg C         |
| Autoignition Temperature:  | Not available.         |
| Flash Point:               | Not available.         |
| Explosion Limits, lower:   | Not available.         |
| Explosion Limits, upper:   | Not available.         |
| Decomposition Temperature: |                        |
| Solubility in water:       | Insoluble.             |
| Specific Gravity/Density:  |                        |
| Molecular Formula:         | C8H5NO                 |
| Molecular Weight:          | 131.13                 |

## \*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

## Chemical Stability:

Stable under normal temperatures and pressures.

## Conditions to Avoid:

Incompatible materials, light.

## Incompatibilities with Other Materials:

Strong oxidizing agents, strong reducing agents, strong acids, strong bases.

## Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

## \*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

## RTECS#:

CAS# 105-07-7: CU5250000

## LD50/LC50:

Not available.

## Carcinogenicity:

4-Cyanobenzaldehyde -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

## \*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

## \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

## \*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

## IATA

Shipping Name: NITRILES, SOLID, TOXIC, N.O.S.\*

Hazard Class: 6.1

UN Number: 3276

Packing Group: III

## IMO

Shipping Name: NITRILES, TOXIC, N.O.S.

Hazard Class: 6.1

UN Number: 3276

Packing Group: III

## RID/ADR

Shipping Name: NITRILES, TOXIC, N.O.S.

Hazard Class: 6.1

UN Number: 3276

Packing group: III

## \*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

## European/International Regulations

## European Labeling in Accordance with EC Directives

Hazard Symbols: XN

## Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

## Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

## WGK (Water Danger/Protection)

CAS# 105-07-7: No information available.

## United Kingdom Occupational Exposure Limits

## United Kingdom Maximum Exposure Limits

Canada

CAS# 105-07-7 is listed on Canada's NDSL List.

CAS# 105-07-7 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 105-07-7 is listed on the TSCA inventory.

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 7/16/1996 Revision #1 Date: 9/09/2003

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 way shall the company 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 the company has been advised of the possibility of such damages.

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