



Material Safety Data Sheet

2-Aminobiphenyl, 98%

MSDS# 02539

Section 1 - Chemical Product and Company Identification

MSDS Name: 2-Aminobiphenyl, 98%
Catalog Numbers: AC103220000, AC103220050, AC103220250
Synonyms: 2-Phenyланiline; 2-Biphenylamine.

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

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

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

Risk Phrases:

CAS#: 90-41-5
Chemical Name: 2-Aminobiphenyl
%: 98
EINECS#: 201-990-9
Hazard Symbols:

Risk Phrases:

CAS#: 92-67-1
Chemical Name: 4-Aminobiphenyl
%: 1.6
EINECS#: 202-177-1
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: XN



Risk Phrases: 22 40 52/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

This product contains 4-aminodiphenyl, a cancer-suspect agent. Target Organs: None known.

Potential Health Effects

- Eye: May cause eye irritation.
- Skin: May cause skin irritation. May be harmful if absorbed through the skin.
- Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.
- Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.
- Chronic: Laboratory experiments have resulted in mutagenic effects. Possible risk of irreversible effects.

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: Treat symptomatically and supportively.

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.
- Autoignition Temperature: 450 deg C (842.00 deg F)
- Flash Point: > 110 deg C (> 230.00 deg F)
- Explosion Limits: Not available
 - Lower:
- Explosion Limits: Not available
 - Upper:
- NFPA Rating: 1 - health, 1 - flammability, 0 - instability

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, mist, or vapor. Avoid contact with skin and eyes. Use only in a chemical fume hood.
- Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
2-Aminobiphenyl	none listed	none listed	none listed
4-Aminobiphenyl	Skin - potential significant contribution to overall exposure by the cutaneous route	none listed	(Cancer suspect agent - see 29 CFR 1910.1003)

OSHA Vacated PELs: 2-Aminobiphenyl: None listed 4-Aminobiphenyl: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. See 29CFR 1910.1003 for specific regulatory requirements applying to areas containing a listed carcinogen, signs, training, reports, and medical surveillance

programs.

Exposure Limits

Personal Protective Equipment

Eyes: Not available

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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: light purple - brown

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 299 deg C (570.20°F)

Freezing/Melting Point: 50 - 53 deg C

Decomposition Temperature: Not available

Solubility in water: Slightly soluble

Specific Gravity/Density:

Molecular Formula: C₁₂H₁₁N

Molecular Weight: 169.23

Section 10 - Stability and Reactivity

Chemical Stability: Not available

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Not available

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 90-41-5: DU8850000

CAS# 92-67-1: DU8925000

RTECS:

CAS# 90-41-5: Oral, rabbit: LD50 = 1020 mg/kg;

Oral, rat: LD50 = 2340 mg/kg;

LD50/LC50: RTECS:

CAS# 92-67-1: Oral, mouse: LD50 = 205 mg/kg;

Oral, rabbit: LD50 = 690 mg/kg;

Oral, rat: LD50 = 500 mg/kg;

2-Aminobiphenyl - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: 4-Aminobiphenyl - ACGIH: A1 - Confirmed Human Carcinogen California: carcinogen, initial date 2/27/87 NTP: Known carcinogen IARC: Group 1 carcinogen

Other: See actual entry in RTECS for complete information. Mutagenicity: Ames-test: positive. Possible mutagen.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 92-67-1: 1 lb final RQ; 0.454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 40 Limited evidence of a carcinogenic effect.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 90-41-5: Not available

CAS# 92-67-1: Not available

Canada

CAS# 90-41-5 is listed on Canada's NDSL List

CAS# 92-67-1 is listed on Canada's NDSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 90-41-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 92-67-1 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 90-41-5 is listed on the TSCA Inventory.

CAS# 92-67-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 6/30/2000

Revision #4 Date 7/20/2009

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 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.
