Section 1 - Chemical Product and Company Identification

MSDS Name: Phenylhydrazine hydrochloride
Catalog Numbers: 15155-0000, 15155-0050, 15155-1000, 15155-5000
Synonyms:

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticalaan 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

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<th>EINECS#</th>
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<td>99+%</td>
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Hazard Symbols: T N

Risk Phrases: 45 23/24/25 36/38 43 48/23/24/25 50 68

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact. May cause cancer. Very toxic to aquatic organisms. Toxic: danger of serious damage to health by prolonged exposure through inhalation, contact with skin and if swallowed. Possible risk of irreversible effects. Light sensitive. Air sensitive.

Potential Health Effects

Eye: Causes eye irritation.
Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Substance is rapidly absorbed through the skin. Toxic in contact with skin.
Ingestion: Toxic if swallowed.
Inhalation: May cause liver and kidney damage. May cause narcotic effects in high concentration. May
cause lung damage. Toxic if inhaled.

**Chronic:** May cause cancer in humans. Absorption into the body leads to the formation of methemoglobin which in sufficient concentrations causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). May cause anemia and other blood cell abnormalities. Possible risk of irreversible effects.

### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

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

**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:** Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Store and handle protected from air.

**Storage:** Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.

### Section 8 - Exposure Controls, Personal Protection

**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.

**Exposure Limits**

- CAS# 59-88-1:

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**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:** Crystalline powder

**Color:** white to light yellow - fine
Odor: odorless
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 250 deg C (482.00°F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature:
Solubility in water: 50 G/L (20°C)
Specific Gravity/Density:
Molecular Formula: C6H5NHNH2.HCl
Molecular Weight: 144.61

**Section 10 - Stability and Reactivity**

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, light, dust generation, exposure to air.
Incompatibilities with Other Materials: Oxidizing agents, bases.
Hazardous Polymerization: Has not been reported.

**Section 11 - Toxicological Information**

RTECS#: CAS# 59-88-1: MV9000000
LD50/LC50: RTECS:
CAS# 59-88-1: Oral, mouse: LD50 = 2100 mg/kg;
Other:
Carcinogenicity: Phenylhydrazine hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

**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**

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</table>
European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:
- R 45 May cause cancer.
- R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitization by skin contact.
- R 48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, contact with skin and if swallowed.
- R 50 Very toxic to aquatic organisms.
- R 68 Possible risk of irreversible effects.

Safety Phrases:
- S 53 Avoid exposure - obtain special instructions before use.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 59-88-1: 3

Canada

CAS# 59-88-1 is listed on Canada's DSL List

US Federal

TSCA

CAS# 59-88-1 is listed on the TSCA Inventory.

Section 15 - Regulatory Information

Section 16 - Other Information

MSDS Creation Date: 11/12/1996
Revision #2 Date 5/23/2005

Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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.

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