



Kemai(Tianjin) Chemical Technical Co.,Ltd.

Gongnong Village, Gulin Street, Dagang Dist, Tianjin 300272, China

Kemai

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Material Safety Data Sheet

KEMAI010

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: DPG

MSDS NO. KEMAI010

Chemical Name: 1,3-Diphenylguanidine,

Use: Accelerator.

Manufactured By: Kemai(Tianjin) Chemical Technical Co.,Ltd.

Emergency Telephone: CHEMTREC: 0086-22-6334-9929 FAX 0086-22-6334-9991

Prepared By: Kemai(Tianjin) Chemical Technical Co.,Ltd.

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2. COMPOSITION, INFORMATION ON INGREDIENTS

| CAS# | Chemical Name | % |
|----------|-----------------------|---|
| 102-06-7 | 1,3-Diphenylguanidine | |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Possible risk of impaired fertility. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.

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

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: Not available.

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.



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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.

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.

7. HANDLING and STORAGE

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. 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.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|--|
| Physical State: | Powder |
| Color: | off-white to beige |
| Odor: | slight characteristic odor |
| pH: | 10.2 (10g/1 aq.sol.) |
| Vapor Pressure: | Not available. |
| Viscosity: | Not available. |
| Boiling Point: | Not available. |
| Freezing/Melting Point: | 146-151 deg C |
| Autoignition Temperature: | Not available. |
| Flash Point: | Not available. |
| Explosion Limits, lower: | Not available. |
| Explosion Limits, upper: | Not available. |
| Decomposition Temperature: | >170 deg C |
| Solubility in water: | slightly soluble |
| Specific Gravity/Density: | |
| Molecular Formula: | C ₁₃ H ₁₃ N ₃ |
| Molecular Weight: | 211.27 |

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.



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Conditions to Avoid:

Incompatible materials, temperatures above 100°C.

Incompatibilities with Other Materials:

Strong oxidizing agents, acids.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 102-06-7: MF0875000

LD50/LC50:

CAS# 102-06-7: Oral, mouse: LD50 = 150 mg/kg; Oral, rabbit: LD50 = 250 mg/kg; Oral, rat: LD50 = 323 mg/kg; Skin, rabbit: LD50 = >794 mg/kg.

Carcinogenicity: 1,3-Diphenylguanidine -

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

See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: Pimephals prome: LC50 = 4.2 mg/l; 96H; .Daphnia: Daphnia: EC50 = 17.0 mg/l; 48H; .

Other: Avoid entering into waters or underground water. Do not empty into drains.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT Status: Not Regulated

DOT Shipping Name: NONE

DOT Reportable Quantity (lbs): None

ICAO/IATA Status: NOT REGULATED FOR TRANSPORTATION

Proper Shipping Name: None

UN/NA Number: NONE

IMDG Status: Not Regulated

Proper Shipping Name: None

TDG (Canada) Status: Not Regulated

15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 Possible risk of impaired fertility.

Safety Phrases:



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S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

16. ADDITIONAL INFORMATION

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.

***** END OF MSDS *****