

Issuing Date 03-Jun-2009

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Revision Number 6

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Imidazole

Product Code(s) 0527

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Synonyms 1,3-DIAZA-2,4-CYCLOPENTADIENE * FORMAMIDINE, N,N'-VINYLENE

Company
AMRESKO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-448-4442
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2. HAZARDS IDENTIFICATION**GHS - Classification**

Classification Acute Toxicity Oral 3 Skin Corrosion/Irritation 1B Toxic to Reproduction 1B

Signal Word Danger



Hazard Statements H301 - Toxic if swallowed H314 - Causes severe skin burns and eye damage
H360 - May damage fertility or the unborn child

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection
P310 - Immediately call a POISON CENTRE or doctor/physician P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No | Weight % | Classification |
|---------------|-------------------|----------------|----------|----------|----------------|
| Imidazole | EEC No. 206-019-2 | Not available | 288-32-4 | 95-100 | - |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| Inhalation | If breathing is difficult, give oxygen. Move to fresh air. |
| Ingestion | Clean mouth with water and afterwards drink plenty of water. |
| Notes to Physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flammable Properties | Not flammable. |
| Flash Point | 145 °C |
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or alcohol-resistant foam. |
| Hazardous Combustion Products | Carbon oxides, Emits toxic fumes. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | Not sensitive. |
| Sensitivity to Static Discharge | Not sensitive. |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------|---|
| Personal Precautions | Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Cleaning Up | Pick up and transfer to properly labeled containers. |

7. HANDLING AND STORAGE

| | |
|-----------------|--|
| Handling | Handle in accordance with good industrial hygiene and safety practice. |
| Storage | Air and moisture sensitive. Keep containers tightly closed in a dry, cool and well-ventilated place. |

Incompatible Products Strong oxidizing agents. Acids. Anhydrides.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields. Avoid contact with eyes.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance | White to slight yellow |
| Odor | Naphthalenic Stale |
| Odor Threshold | No information available |
| Decomposition Temperature °C | No information available |
| Freezing Point | No information available |
| Initial Boiling Point | No information available |
| Physical State | Solid |
| pH | No data available |
| Flash Point | 145 °C |
| Autoignition Temperature | No data available |
| Boiling Point/Range | No data available |
| Melting Point/Range | No data available |
| Flammability Limits in Air | Upper No data available Lower No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |
| Evaporation Rate | No data available |
| MMHG @ 37.8 C | No data available |
| Vapor Density | No data available |
| Specific Gravity | No data available |
| Solubility | No information available |
| Partition Coefficient (n-octanol/water) | No data available |
| Viscosity | No information available |

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents. Acids. Anhydrides.

Conditions to Avoid Protect from air, light and moisture. Protect from moisture.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Ammonia.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Toxic by inhalation and if swallowed. Causes skin, eye and respiratory tract irritation.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------|-------------------|-------------|-----------------|
| Imidazole | 220 mg/kg (Rat) | | |

Chronic Toxicity

Chronic Toxicity Suspected teratogen. Contains a known or suspected reproductive toxin.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|-----------------------------------|---|---------------------------|----------|----------------------------|
| Imidazole | EC50 = 130 mg/L 72 h EC50 = 82 mg/L 96 h | | | EC50 = 341.5 mg/L 48 h |
| Chemical Name Imidazole | | Log Pow = -0.02 | | |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA

UN-No 3263
 Proper Shipping Name Corrosive Solid, Basic, Organic, N.O.S. (Containing Imidazole)
 Hazard Class 8
 Packing Group III

DOT

Proper Shipping Name Corrosive Solid, Basic, Organic, N.O.S. (Containing Imidazole)
 Hazard Class 8
 UN-No 3263
 Packing Group III

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

| Chemical Name | Dangerous Substances | Organic Solvents | Harmful Substances Whose Names Are to be Indicated on the Label | Pollution Release and Transfer Registry (Class II): | Pollution Release and Transfer Registry (Class I): | Poison and Deleterious Substances Control Law: |
|----------------------------------|---|--|---|---|--|--|
| Imidazole | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Component | ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | ISHA - Harmful Substances Requiring Permission | Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals | Toxic Release Inventory (TRI) - Group I | Toxic Release Inventory (TRI) - Group II | |
| Imidazole 288-32-4 (95-100) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |

International Inventories

TSCA Complies
 EINECS/ELINCS Complies
 ENCS Complies
 IECSC Complies
 KECL Does not Comply
 PICCS Complies
 AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

- D1B Toxic materials
- E Corrosive material
- D2A Very toxic materials



16. OTHER INFORMATION

Product Code(s)0527
Imidazole

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Revision Note

No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS