Safety Data Sheet



Revision Number: 001.0

Issue date: 01/26/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

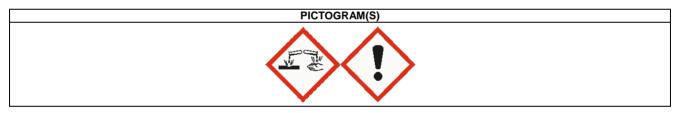
ARMSTRONG A-661B PINT Epoxy Hardener None identified

IDH number: 2011261 Item number: 2011261 Region: **United States** Contact information: Telephone: (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

| | EMERGENCY OVERVIEW | |
|---------|--|--|
| DANGER: | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION. | |

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN CORROSION | 1B |
| SERIOUS EYE DAMAGE | 1 |
| SKIN SENSITIZATION | 1 |



Precautionary Statements

| Prevention: | Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. |
|-------------|---|
| Response: | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing |
| Storage: | before reuse. Store locked up. |
| Disposal: | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations. |

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Percentage* |
|---------------------------------------|-------------|-------------|
| Amine adduct | Proprietary | 60 - 100 |
| Triethylenetetramine | 112-24-3 | 5 - 10 |
| 2,4,6-Tris(dimethylaminomethyl)phenol | 90-72-2 | 1 - 5 |
| Substituted aminophenol | Proprietary | 0.1 - 1 |

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

| 4 | I. FIRST AID MEASURES |
|------------------------------------|---|
| Inhalation: | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Skin contact: | Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Get medical attention. Wash clothin before reuse. Thoroughly clean shoes before reuse. |
| Eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion: | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. |
| Symptoms: | See Section 11. |
| 5. | FIRE FIGHTING MEASURES |
| Extinguishing media: | Foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such a turn-out gear. |
| Unusual fire or explosion hazards: | In case of fire, keep containers cool with water spray. |
| Hazardous combustion products: | Oxides of carbon. Oxides of nitrogen. Toxic fumes. Irritating vapors. |

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

| Environmental precautions: | Do not allow product to enter sewer or waterways. |
|----------------------------|--|
| Clean-up methods: | Remove all sources of ignition. Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal. |

7. HANDLING AND STORAGE

| Handling: | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed. |
|-----------|--|
| Storage: | Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Store in original container until ready to use. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---------------------------------------|-----------|----------|----------------------------------|-------|
| Amine adduct | None | None | None | None |
| Triethylenetetramine | None | None | 1 ppm (6 mg/m3) TWA (SKIN) | None |
| 2,4,6-Tris(dimethylaminomethyl)phenol | None | None | None | None |
| Substituted aminophenol | None | None | None | None |

| Engineering controls: | Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits. |
|-------------------------|---|
| Respiratory protection: | Use NIOSH approved respirator if there is potential to exceed exposure limit(s). |
| Eye/face protection: | Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available. |
| Skin protection: | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Color:Dark AmberOdor:AmmoniacalOdor threshold:Not available.pH:Not available.Vapor pressure:Not determinedBoiling point/range:Not determinedMelting point/range:Not available.Specific gravity:0.97Vapor density:Not available.Flash point:148.89 °C (300°F) Cleveland open cupFlammable/Explosive limits - lower:Not available.Flammable/Explosive limits - upper:Not available.Autoignition temperature:Not available.Evaporation rate:Not available.Solubility in water:InsolublePartition coefficient (n-octanol/water):Not available.VOC content:Not available.Viscosity:Not available.Decomposition temperature:Not available.Viscosity:Not available.Not available.Not available.Viscosity:Not available.Decomposition temperature:Not available. | Physical state: | Liquid |
|--|--|--------------------------------------|
| Odor threshold:Not available.pH:Not available.Vapor pressure:Not determinedBoiling point/range:Not determinedMelting point/range:Not determinedMelting point/range:Not available.Specific gravity:0.97Vapor density:Not available.Flash point:148.89 °C (300°F) Cleveland open cupFlammable/Explosive limits - lower:Not available.Flammable/Explosive limits - lower:Not available.Flammable/Explosive limits - upper:Not available.Autoignition temperature:Not available.Solubility in water:InsolublePartition coefficient (n-octanol/water):Not available.VoC content:Not available.Viscosity:Not available. | Color: | Dark Amber |
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| Partition coefficient (n-octanol/water):Not available.VOC content:Not available.Viscosity:Not available. | Evaporation rate: | Not available. |
| VOC content: Not available. Viscosity: Not available. | Solubility in water: | Insoluble |
| Viscosity: Not available. | Partition coefficient (n-octanol/water): | Not available. |
| • | VOC content: | Not available. |
| Decomposition temperature: Not available. | Viscosity: | Not available. |
| • • | Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

| Stability: | Stable under normal conditions of storage and use. |
|--------------------------------------|---|
| Hazardous reactions: | None under normal processing. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of nitrogen. Toxic fumes. Irritating vapors. |
| Incompatible materials: | Strong oxidizing agents. Acids. |
| Reactivity: | Not available. |
| Conditions to avoid: | Keep away from heat, ignition sources and incompatible materials. |

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

| Inhalation: | Mists, vapors or liquid may cause severe irritation or burns. |
|---------------|--|
| Skin contact: | Causes skin burns. May cause allergic skin reaction. |
| Eye contact: | Causes serious eye damage. |
| Ingestion: | Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---------------------------------------|-----------------|--|
| Amine adduct | None | No Records |
| Triethylenetetramine | None | Allergen, Corrosive, Developmental, Irritant, Mutagen |
| 2,4,6-Tris(dimethylaminomethyl)phenol | None | Irritant, Allergen |
| Substituted aminophenol | None | No Records |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---------------------------------------|----------------|-----------------|---|
| Amine adduct | No | No | No |
| Triethylenetetramine | No | No | No |
| 2,4,6-Tris(dimethylaminomethyl)phenol | No | No | No |
| Substituted aminophenol | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

| U.S. Department of Transportation Ground (4 | 49 CFR) |
|--|--|
| Proper shipping name: | Triethylenetetramine |
| Hazard class or division: | 8 |
| Identification number: | UN 2259 |
| Packing group: | II |
| International Air Transportation (ICAO/IATA) | |
| Proper shipping name: | Triethylenetetramine (Triethylenetetramine, Modified Amine Adduct) |
| Hazard class or division: | 8 |
| Identification number: | UN 2259 |
| Packing group: | II |

| Water Transportation (IMO/IMDG) | |
|--------------------------------------|--|
| Proper shipping name: | AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine, Modified Amine Adduct) |
| Hazard class or division: | 8 |
| Identification number: | UN 2735 |
| Packing group: | |
| Marine pollutant: | Modified Amine Adduct |
| · | |
| | 15. REGULATORY INFORMATION |
| | |
| United States Regulatory Information | |
| TSCA 8 (b) Inventory Status: | All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. |
| TSCA 12 (b) Export Notification: | None above reporting de minimis |
| | |
| CERCLA/SARA Section 302 EHS: | None above reporting de minimis |
| CERCLA/SARA Section 311/312: | Immediate Health, Delayed Health |
| CERCLA/SARA Section 313: | None above reporting de minimis |
| | ····· - ··· - · - · · · · · · · · · · · |
| California Proposition 65: | No California Proposition 65 listed chemicals are known to be present. |
| | the second s |

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Rebecca Pasco, Regulatory Affairs Specialist

Issue date: 01/26/2015

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