

SAFETY DATA SHEET

Version: 3.0
Date of Issue: 3rd March 2020
Date of First Issue: 20th March 2012


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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

| | |
|---|--|
| Product identifier used on the label | M-Bond Curing Agent 10A |
| Other means of identification | Not applicable |
| Recommended use of the chemical and restrictions on use | |
| Recommended use | Adhesives |
| Restrictions on use | Anything other than the above. |
| Details of the supplier of the safety data sheet | |
| Supplier | VISHAY MEASUREMENTS GROUP, INC. |
| Address of Supplier | Post Office Box 27777 Raleigh, NC 27611 USA |
| Telephone | +1 919-365-3800 |
| Fax | +1 919-365-3945 |
| E-Mail (competent person) | mm.us@vishaypg.com |
| Emergency telephone number | 1-800-424-9300 CHEMTREC (24 hours) |

SECTION 2: HAZARD(S) IDENTIFICATION

| | |
|---|--|
| Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200 | |
| Physical hazards | Not classified |
| Health hazards | Acute Toxicity (Oral) - Category 4 Acute Toxicity (Dermal) - Category 4 Acute Toxicity (Inhalation) - Category 2 Skin Corrosive - Category 1B Skin Sensitizer - Category 1 Eye Damage - Category 1 Specific target organ toxicity — single exposure, Category 3 (Respiratory tract irritation via inhalation) Reproductive Toxicant - Category 1B Aquatic Chronic - Category 2 |
| Environmental hazards | |
| Hazard Symbol |  |
| Signal Word(s) | DANGER |
| Hazard Statement(s) | Harmful if swallowed. Harmful in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May damage fertility (by ingestion or inhalation). Toxic to aquatic life with long lasting effects. |
| Precautionary Statement(s) Prevention | Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. |

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| | |
|---|--|
| Response | <p>Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe vapors. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Avoid release to the environment. If exposed or concerned: Call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Take off contaminated clothing and wash it before reuse. Contaminated work clothing must not be allowed out of the workplace. Collect spillage.</p> |
| Storage | <p>Store in a well-ventilated place. Keep container tightly closed. Store locked up.</p> |
| Disposal | <p>Dispose of contents in accordance with local, state or national legislation.</p> |
| Other hazards | <p>None known.</p> |
| Percent of the mixture consists of ingredient(s) of unknown acute toxicity: | <p>0% of the mixture consists of ingredients of unknown acute inhalation toxicity. 0% of the mixture consists of ingredients of unknown acute oral toxicity. 0% of the mixture consists of ingredients of unknown acute dermal toxicity.</p> |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances - Not applicable

Mixtures - Substances in preparations / mixtures

| Chemical identity of the substance | %W/W | Synonym(s) | CAS No. | Hazard classification |
|------------------------------------|-------|---|----------|--|
| 2,2'-Iminodi(ethylamine) | 65-75 | Diethylenetriamine (DETA) N,N-Bis(2-aminoethyl)amine | 111-40-0 | Acute Toxicity (Oral) - Category 4 Acute Toxicity (Dermal) - Category 4 Acute Toxicity (Inhalation) - Category 2 Skin Corrosive - Category 1B Skin Sensitizer - Category 1 Eye Damage - Category 1 Specific Target Organ Toxicity Single Exposure - Category 3 (Respiratory Tract Irritation via inhalation) |
| 4,4'-isopropylidenediphenol | 25-35 | Bisphenol A (BPA) 2,2-Bis(4-hydroxyphenyl)propane | 80-05-7 | Skin Sensitizer - Category 1 Eye Damage - Category 1 Specific Target Organ Toxicity Single Exposure - Category 3 (Respiratory Tract Irritation via inhalation) Reproductive Toxicant - Category 1B Aquatic Chronic - Category 2 |

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SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Wear suitable protective clothing. Wear respiratory protection, where available. Do not breathe vapour. Avoid all contact. Do not use mouth-to-mouth resuscitation. Contaminated clothing should be thoroughly cleaned. A washing facility/water for eye and skin cleaning purposes should be present. IF exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is laboured, oxygen should be administered by qualified personnel.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Gently wash with plenty of soap and water. Immediately call a POISON CENTER/doctor.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

Fatal if inhaled. Causes severe skin burns and eye damage. Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. May cause respiratory irritation. May damage fertility.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Fluid build-up on the lung (pulmonary oedema) may occur up to 48 hours after exposure and could prove fatal. Patient should be kept under medical observation for at least 48 hours.

Notes to a physician:

IF IN EYES:

Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation.

IF SWALLOWED:

Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or water-spray. Alcohol resistant foams (ATC type) are preferred.

Unsuitable extinguishing Media

Halons. Do not use water jet. Direct water jet may spread the fire.

Special hazards arising from the substance or mixture

Not flammable. Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon monoxide, Carbon dioxide, Ammonia, Volatile Amines, Aldehydes.

Special protective equipment and precautions for fire fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus (SCBA). Evacuate the area and keep personnel upwind. Do not breathe fumes. Use water-spray to 'knock down' vapour, but do not use water jet on a leak of the tank. Shut off leaks if without risk. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No action should be taken involving personal risk. Use personal protective equipment as required: See Section: 8. Ensure adequate ventilation. Avoid all contact. Do not breathe vapour. Ground and bond container and receiving equipment. Stop leak if safe to do so. Contaminated clothing should be laundered before reuse.

Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or

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Methods and material for containment and cleaning up

watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
Small spillages: Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a container for disposal.
Large spillages: Dike area to contain the spill and prevent releases to sewers, drains, or other waterways. Use water spray to cool and disperse vapours and protect personnel. Use vacuum equipment for collecting spilt materials, where practicable. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Ensure operatives are trained to minimise exposures. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Avoid exposure during pregnancy.

Conditions for safe storage, including any incompatibilities

Store under inert gas (e.g. nitrogen) to prevent ingress of moisture or air into the container. If a container is part emptied flush thoroughly with inert gas prior to resealing. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.

Storage temperature
Incompatible materials

Suitable containers: Stainless steel, Aluminium.
Unsuitable containers: Brass, Copper, copper alloy, Bronze.
Keep away from fibrous insulations; spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.
Ambient. Keep at temperature not exceeding (°C): 27
Keep away from: Nitrosating agents, cellulose nitrate, Strong oxidising agents, strong bases, Acids, Aldehydes, metals (Copper, Zinc and their alloys), halogenated compounds, sawdust. Use of sodium nitrite or other nitrosating agents in formulations containing this product may lead to formation of suspected cancer-causing nitrosamines. May form explosive complexes with silver, cobalt, or chromium compounds. Corrosive to aluminum, copper, brass & zinc.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

No OSHA permissible exposure limit (PEL).

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|--------------------------|----------|---------------------|------------------------------------|------------|---------------------------|---------------|
| 2,2'-Iminodi(ethylamine) | 111-40-0 | 1 | 4 | - | - | NIOSH Skin |
| | | 1 | - | - | - | ACGIH Skin |

Source(s):

ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017.
NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs).

Notes:

Skin: Danger of cutaneous absorption (skin, mucous membranes and eyes) by contact with vapors, liquids and solids

Biological Exposure Indices

Not established

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Guarantee that the eye flushing systems and safety showers are located close to the working place.

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Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection



General hygiene measures for the handling of chemicals are applicable. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Avoid all contact. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place. Avoid exposure during pregnancy.

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection.

Recommended: EN166 or equivalent; Safety spectacles/goggles/full face shield.

Skin protection



Hand protection:

Wear impervious gloves. Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

For prolonged/frequent contact:

Recommended: At least protective index 5, corresponding > 240 minutes of permeation time according to EN 374. Chlorinated polyethylene; Polyethylene; Ethyl vinyl alcohol laminate (EVAL).

For brief/splash contact:

Recommended: At least protective index 3, corresponding > 60 minutes of permeation time according to EN 374.

Body protection:

Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment.

Recommended: Organic vapor cartridge with a particulate pre-filter, type AP2

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Clear Liquid |
| Odor | Ammoniacal Odour |
| Odor Threshold | Not available. |
| pH | Not established. |
| Melting Point/Freezing Point | Not available. |
| Initial boiling point and boiling range | 199°C |
| Flash Point | 102°C [Closed cup] |
| Evaporation rate (Butyl acetate = 1) | Not established. |
| Flammability (solid, gas) | Not applicable - Liquid |
| Upper/lower flammability or explosive limits | Flammable Limits (Lower) (%v/v): 1.4 Flammable Limits (Upper) (%v/v): 9.2 |
| Vapour pressure | <1 @ 27°C |
| Vapour density | 3.56 (Air = 1) |
| Relative density | 1.02 g/cm ³ (H ₂ O = 1) |
| Solubility(ies) | The product is soluble in water. |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition Temperature | Not available. |

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Viscosity Not available.

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable under normal conditions. May decompose if heated. |
| Possibility of hazardous reactions | Hazardous polymerisation will not occur. If spilt substance is absorbed in a rag, the high surface area of the material can allow autoignition at room temperature. |
| Conditions to avoid | Keep away from heat and sources of ignition. Keep at temperature not exceeding (°C): 27. Protect from moisture. |
| Incompatible materials | Keep away from: Nitrosating agents, cellulose nitrate, Strong oxidising agents, strong bases, Acids, Aldehydes, metals (Brass, Copper, Bronze, Zinc and their alloys), halogenated compounds, sawdust. Use of sodium nitrite or other nitrosating agents in formulations containing this product may lead to formation of suspected cancer-causing nitrosamines. May form explosive complexes with silver, cobalt, or chromium compounds. Corrosive to aluminum, copper, brass & zinc. |
| Hazardous decomposition product(s) | Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon monoxide, Carbon dioxide, Ammonia, Volatile Amines, Aldehydes. |

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

| | |
|--|---|
| Acute toxicity - Ingestion | Mixture: Acute Toxicity (Oral) - Category 4; Harmful if swallowed. Acute Toxicity Estimate Mixture Calculation: LD50 expected to be 500 - 1000 mg/kg bw/day. |
| 2,2'-Iminodi(ethylamine) | Acute Toxicity (Oral) - Category 4; Harmful if swallowed. EU Harmonised Classification |
| Acute toxicity - Inhalation | Mixture: Acute Toxicity (Inhalation) - Category 2; Fatal if inhaled. Acute Toxicity Estimate Mixture Calculation: LC50 expected to be 0.5 – 1.0 mg/l |
| 2,2'-Iminodi(ethylamine) | Acute Toxicity (Inhalation) - Category 2; Fatal if inhaled. NOEL (rats): 0.07 mg/l air (aerosolized mist), in accordance with OECD 403 & TSCA Testing Guidelines (Unnamed publication, 1977) |
| Acute toxicity - Skin Contact | Mixture: Acute Toxicity (Dermal) - Category 4; Harmful in contact with skin. Acute Toxicity Estimate Mixture Calculation: LD50 expected to be 1000 - 2000 mg/kg bw/day. |
| 2,2'-Iminodi(ethylamine) | Acute Toxicity (Dermal) - Category 4; Harmful in contact with skin. EU Harmonised Classification |
| Skin corrosion/irritation | Mixture: Skin Corrosive - Category 1B; Causes severe skin burns. |
| 2,2'-Iminodi(ethylamine) | Skin Corrosive - Category 1B; Causes severe skin burns. EU Harmonised Classification |
| Serious eye damage/irritation | Mixture: Eye Damage - Category 1; Causes serious eye damage. |
| 2,2'-Iminodi(ethylamine) | Eye Damage - Category 1; Causes serious eye damage. Corrosive to rabbit eyes (Unnamed publication, 1970) |
| Bisphenol A | Eye Damage - Category 1; Causes serious eye damage. EU Harmonised Classification |
| Respiratory or skin sensitization | Mixture: Skin Sensitizer - Category 1; May cause an allergic skin reaction. |
| 2,2'-Iminodi(ethylamine) | Skin Sensitizer - Category 1; May cause an allergic skin reaction. EU Harmonised Classification |
| Bisphenol A | Skin Sensitizer - Category 1; May cause an allergic skin reaction. EU Harmonised Classification |
| Germ cell mutagenicity | Mixture: Based upon the available data, the classification criteria are not met. |
| Carcinogenicity | Mixture: Based upon the available data, the classification criteria are not met. |
| Reproductive toxicity | Mixture: Reproductive Toxicant - Category 1B; May damage fertility (by ingestion or inhalation). |
| Bisphenol A | Reproductive Toxicant - Category 1B; May damage fertility (by ingestion or inhalation). EU Harmonised Classification |

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| | |
|---|--|
| STOT - single exposure | Mixture: Specific target organ toxicity — single exposure, Category 3 (Respiratory Tract Irritation via inhalation) |
| 2,2'-Iminodi(ethylamine) | Specific target organ toxicity — single exposure, Category 3 (Respiratory Tract Irritation via inhalation) Pulmonary oedema in rats observed (Unnamed publication, 1970) (OECD 403) |
| Bisphenol A | Specific target organ toxicity — single exposure, Category 3 (Respiratory Tract Irritation via inhalation) EU Harmonised Classification |
| STOT - repeated exposure | Mixture: Based upon the available data, the classification criteria are not met. |
| Aspiration hazard | Mixture: Based upon the available data, the classification criteria are not met. |
| Information on likely routes of exposure | |
| Inhalation | Possible – accidental exposure. |
| Ingestion | Unlikely – accidental exposure. |
| Skin Contact | Possible – accidental exposure. |
| Eye Contact | Unlikely – accidental exposure. |
| Early onset symptoms related to exposure | Fatal if inhaled. Causes severe skin burns and eye damage. Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. May cause respiratory irritation. |
| Delayed health effects from exposure | May damage fertility. Fluid build-up on the lung (pulmonary oedema) may occur up to 48 hours after inhalation exposure and could prove fatal. |
| Other information | |
| NTP Report on Carcinogens | None of the components are listed. |
| IARC Monographs | None of the components are listed. |
| OSHA Designated Carcinogen | None of the components are listed. |
| NIOSH Occupational Carcinogen List | None of the components are listed. |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--------------------------------------|--|
| Ecotoxicity | Aquatic Chronic - Category 2; Toxic to aquatic life with long lasting effects. Estimated Mixture LC50: ≤ 1 mg/l (Fish) |
| Bisphenol A | Aquatic Chronic - Category 2; Toxic to aquatic life with long lasting effects. NOEC (Fish): 0.016 mg/L (Unnamed publication, 2000) |
| Persistence and degradability | No data for the mixture as a whole. |
| 2,2'-Iminodi(ethylamine) | Readily biodegradable. (OECD 302A) |
| Bisphenol A | Readily biodegradable. (OECD 301F) |
| Bioaccumulative potential | No data for the mixture as a whole. |
| 2,2'-Iminodi(ethylamine) | The substance has low potential for bioaccumulation. Bioconcentration factor (BCF) : < 6.3 l/kg (Fish) (OECD 305C) EU ECHA Registration Endpoint summary. |
| Bisphenol A | The substance has low potential for bioaccumulation. Bioconcentration factor (BCF) : < 73 l/kg (Fish) EU ECHA Registration Endpoint summary. |
| Mobility in soil | No data for the mixture as a whole. |
| 2,2'-Iminodi(ethylamine) | The substance has low mobility in soil. Koc: 19111 l/kg @ 25 °C ; Log(Koc): 4.3 l/kg @ 25 °C (Unnamed publication , 1991). EU ECHA Registration Endpoint summary. |
| Bisphenol A | The substance has moderate mobility in soil. Koc: 750 l/kg @ 25 °C . EU ECHA Registration Endpoint summary. |
| Other adverse effects | Mixture: Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance. |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|--------------------------------|--|
| Waste treatment methods | This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Dispose of contents in |
|--------------------------------|--|

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accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

| | ADR/RID | IMDG | IATA |
|---|---|---|---|
| UN number | UN 2927 | UN 2927 | UN 2927 |
| UN proper shipping name | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (CONTAINS 2,2'- IMINODI(ETHYLAMINE)) | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (CONTAINS 2,2'- IMINODI(ETHYLAMINE)) | TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (CONTAINS 2,2'- IMINODI(ETHYLAMINE)) |
| Transport hazard class(es) | 6.1 + 8 | 6.1 + 8 | 6.1 + 8 |
| Packing group | II | II | II |
| Environmental hazards | Environmentally hazardous substance | Classified as a Marine Pollutant. | Environmentally hazardous substance |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. | | |
| Special precautions for user | See Section: 2 | | |
| Additional Information | None. | | |

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

| | |
|---|---|
| TSCA (Toxic Substance Control Act) | All components are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA). |
| TSCA Chemical Data Reporting (CDR) | 2,2'-Iminodi(ethylamine): subject to 25,000 lb reporting threshold Bisphenol A: subject to 25,000 lb reporting threshold |
| EPCRA/SARA Section 302 Extremely Hazardous Substances | Not Listed |
| EPCRA Section 313 Toxics Release Inventory (TRI) Program | Bisphenol A: De Minimis limit: 1% |
| NIOSH Occupational Carcinogen List | Not Listed |
| OSHA List of highly hazardous chemicals, toxics and reactives | Not Listed |
| NTP Report on Carcinogens (RoC) List | Not Listed |
| Poison Prevention Packaging Act | Not Listed |
| US State Regulations | |
| California State, Proposition 65 List | Bisphenol A: Safe harbor level - MADL: 3 (dermal exposure from solid materials) µg/day |
| New Jersey State Worker and Community RTK Act | 2,2'-Iminodi(ethylamine): RTKHSL. SHHSL Bisphenol A: RTKHSL |
| Pennsylvania State, Worker and Community RTK Act | 2,2'-Iminodi(ethylamine): Hazardous Substance List Bisphenol A: Hazardous Substance List; Environmental Hazard List |
| Rhode Island State, Hazardous Substances RTK Act | 2,2'-Iminodi(ethylamine): Hazardous Substance List |
| Non-Regional | |
| IARC Monographs, List of Classifications | Not Listed |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation compliant with HazCom 2012 format, various sections have been updated to include new information. Please review SDS with care.

The following sections have updates indicated by :

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References:

Existing Safety Data Sheet (SDS).

Existing ECHA registration(s) and Harmonised Classification(s) for 2,2'-iminodi(ethylamine) (CAS No. 111-40-0) and Bisphenol A (CAS No. 80-05-7).

| Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200 | Classification Procedure |
|--|---|
| Acute Toxicity (Oral) - Category 4 | Acute Toxicity Estimate (ATE) Mixture Calculation |
| Acute Toxicity (Dermal) - Category 4 | Acute Toxicity Estimate (ATE) Mixture Calculation |
| Acute Toxicity (Inhalation) - Category 2 | Acute Toxicity Estimate (ATE) Mixture Calculation |
| Skin Corrosive - Category 1B | Threshold Calculation |
| Skin Sensitizer - Category 1 | Threshold Calculation |
| Eye Damage - Category 1 | Threshold Calculation |
| Specific target organ toxicity — single exposure, Category 3 (Respiratory tract irritation via inhalation) | Threshold Calculation |
| Reproductive Toxicant - Category 1B | Threshold Calculation |
| Aquatic Chronic - Category 2 | Summation Calculation |

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

BEI: Biological Exposure Indices (ACGIH)

CAS: Chemical Abstracts Service

ECHA: European Chemicals Agency

EPCRA: Emergency Planning and Community Right-to-Know Act

EN: European Standard

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

LC50/LD50: Lethal Concentration/Lethal Dose (resulting in 50% death rate within animal test group)

LTEL: Long Term Exposure Limit

NIOSH: National Institute of Occupational Safety and Health

NOEC: No Observed Effect Concentration

NOEL: No Observable Effect Level

NTP: National Toxicology Program

OHAT: NTP: Office of Health Assessment and Translation

OECD: Organisation for Economic Co-operation and Development

OSHA: The Occupational Safety & Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible exposure limit

RID: International Carriage of Dangerous Goods by Rail

REL: Recommended exposure limit

RTK: Right-to-Know

RTKHS: Right to Know Hazardous Substance List

SARA: Superfund Amendments and Reauthorization Act

SCL: Specific Concentration Limit

SHHS: Special Health Hazard Substance List

STEL: Short Term Exposure Limit

TLV: Threshold Limit value

TRQ: Threshold Reportable Quantity

TSCA: Toxic Substance Control Act

TWA: Time Weighted Average

vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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