

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.10.2017

Industrial Cure

SECTION 1: Identification

Material name: Industrial Cure

Product code: 100084622

Recommended use of the product and restriction on use:

Curing agent.



Manufacturer or supplier details

Manufacturer:

McKinnon Materials, INC.

5612 56th Commerce Park Blvd

(813) 622-7031

info@mckinnonmaterials.com

Emergency telephone number:

ChemTrec

North America: 1-800-424-9300

SECTION 2: Hazard(s) identification

GHS classification:

Acute toxicity (inhalation), category 3.

Skin corrosion, category 1B.

Serious eye damage, category 1.

Skin sensitization, category 1.

Reproductive toxicity, category 2.

Acute aquatic hazard, category 3.

Chronic aquatic hazard, category 3.

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H331 Toxic if inhaled

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H361 Suspected of damaging fertility or the unborn child

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects

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Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
- P302+P352 If on skin: Wash with soap and water.
- P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
- P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
- P305+P351+P338+P310 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 or doctor/physician.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P403+P233 Store in a well ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Wt. %
CAS number: 2855-13-2	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-	15-30
CAS number: 100-51-6	Benzyl Alcohol	20-40
CAS number: 111-40-0	1,2-Ethanediamine, N1-(2-aminoethyl)-	5-15
CAS number: Trade Secret	Cycloaliphatic Amine Adduct	15-30
CAS number: 80-05-7	Bisphenol A	5-15

SECTION 4: First-aid measures

Description of first aid measures

after inhalation:

Take precautions to ensure your own safety.

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Remove source of exposure or move person to fresh air and keep comfortable for breathing.
Immediately call a POISON CONTROL CENTER or seek medical attention.
If breathing has stopped, trained personnel should begin rescue breathing.
Avoid mouth-to-mouth contact by using a barrier device.
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR).

After skin contact:

Immediately call a POISON CONTROL CENTER or seek medical attention.
Avoid direct contact and wear chemical protective clothing, if necessary.
Immediately take off all contaminated clothing.
Wash with plenty of water / soap and rinse thoroughly until medical aid is available.
Gently blot or brush away excess product.
Wash contaminated clothing before re-use or discard.

After eye contact:

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CONTROL CENTER or seek medical attention.

After swallowing:

Immediately call a POISON CONTROL CENTER or seek medical attention.
Rinse mouth and do not induce vomiting.
If breathing has stopped, trained personnel should begin rescue breathing.
Avoid mouth-to-mouth contact by using supplied air / barrier device.
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR).

Most important symptoms and effects, both acute and delayed

Acute symptoms:

No information available.

Delayed symptoms:

No information available.

Immediate medical attention and special treatment:

No information available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Additional information:

None

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

- Wear protective eye wear, gloves and clothing.
- Ensure adequate ventilation.
- Ensure air handling systems are operational.

Environmental precautions:

- Should not be released into the environment.
- Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing.
- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).
- Dispose of contents / container in accordance with local regulations.

Reference to other sections:

None

SECTION 7: Handling and storage

Precautions for safe handling:

- Use appropriate personal protective equipment (see Section 8).
- Use only with adequate ventilation.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Wash thoroughly after handling.
- Do not get in eyes, on skin, or on clothing.
- Do not breathe mist or vapor.

Conditions for safe storage, including any incompatibilities:

- Store in a cool, well-ventilated area.
- Protect from freezing and physical damage.
- Keep container tightly sealed.
- Hold bulk storage under a nitrogen blanket.

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters:

Component name	Identifier	Permissible concentration
Benzyl Alcohol	100-51-6	WEEL TWA 10.0 ppm
1,2-Ethanediamine, N1-(2-aminoethyl)-	111-40-0	NIOSH TWA 1.0 ppm 4.0 mg/m ³
1,2-Ethanediamine, N1-(2-aminoethyl)-	111-40-0	ACGIH TWA: 1.0 ppm

Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

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Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or guidelines, use a NIOSH-approved respirator.

Eye protection:

Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Skin and body protection:

Select glove material impermeable and resistant to the substance.
Suitable gloves can be recommended by supplier.

General hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.
Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Liquid, clear to straw color	Explosion limit lower: Explosion limit upper:	Not determined or not available. Not determined or not available.
Odor:	Amine-like	Vapor pressure:	0.02 mmHg at 20°C
Odor threshold:	Not determined or not available.	Vapor density:	5.88 g/cm ³ at 20°C
pH-value:	Not determined or not available.	Relative density:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	Solubilities:	Partially soluble.
Boiling point/range:	205 °C / 401 °F	Partition coefficient (n-octanol/water):	Not determined or not available.
Flash point (closed cup):	101 °C / 213 °F (PMCC)	Auto/Self-ignition temperature:	Not determined or not available.
Evaporation rate:	Not determined or not available.	Decomposition temperature:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.	Dynamic viscosity:	Not determined or not available.
Density:	1.04 g/cm ³ at 20°C	Kinematic viscosity:	Not determined or not available.

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

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Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

SECTION 11: Toxicological information

Exposure routes:

No information available.

Acute toxicity:

Oral:

Benzyl Alcohol: LD50 - Rat - 1,230 mg/kg.

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-: LD50 - Rat - 1,030 mg/kg.

1,2-Ethanediamine, N1-(2-aminoethyl)-: LD50 - Rat - 1,080 mg/kg.

Dermal:

1,2-Ethanediamine, N1-(2-aminoethyl)-: LD50 - Rabbit - 1,090 mg/kg.

Inhalation:

Benzyl Alcohol: LD50 - Rat - > 4,178 mg/m³.

Skin corrosion/irritation:

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-: Corrosive to the skin.

Cycloaliphatic Amine Adduct: Irritating to the skin.

1,2-Ethanediamine, N1-(2-aminoethyl)-: Corrosive to the skin.

Serious eye damage/irritation:

Cycloaliphatic Amine Adduct: Irritating effect on the eyes.

Bisphenol A: Corrosive effect on the eyes.

Respiratory or skin sensitization:

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- : Sensitization possible through skin contact.

Cycloaliphatic Amine Adduct : Sensitization possible through skin contact.

1,2-Ethanediamine, N1-(2-aminoethyl)- : Sensitization possible through skin contact.

Bisphenol A : Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Carcinogenicity:

IARC (International Agency for Research on Cancer):

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None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

Germ cell mutagenicity:

No information available.

Reproductive toxicity:

Bisphenol A : Suspected of damaging fertility or the unborn child.

STOT-single and repeated exposure:

Bisphenol A : Component affects the respiratory system.

Aspiration toxicity:

No information available.

Additional toxicological information

No information available.

SECTION 12: Ecological information

Ecotoxicity:

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-: Aquatic invertebrates, LC50 - Daphnia magna (Water flea) - 17.4 mg/L.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil:

No information available.

Other adverse effects:

No information available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies.

SECTION 14: Transportation information

Land transport:

DOT (49 CFR) transport


UN Number:

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	UN2735
UN Proper shipping name:	UN2735, Amines, Liquid, Corrosive, N.O.S. (Isophoronediamine, Diethylenetriamine),8, III
UN Transport hazard classes:	8
Packing group:	III
Danger label:	8 Corrosive substances 
Environmental hazards:	No
Special precautions for user:	None

Air transport:

IATA-DGR

UN Number:	UN2735
UN Proper shipping name:	UN2735, Amines, Liquid, Corrosive, N.O.S. (Isophoronediamine, Diethylenetriamine),8, III
UN Transport hazard classes:	8
Packing group:	III
Danger label:	8 Corrosive substances 
Environmental hazards:	No
Special precautions for user:	None

Sea transport:

IMDG


UN Number:	UN2735
UN Proper shipping name:	UN2735, Amines, Liquid, Corrosive, N.O.S. (Isophoronediamine, Diethylenetriamine),8, III
UN Transport hazard classes:	8
Packing group:	III
Danger label:	8 Corrosive substances

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EMS code:	 None
Environmental hazards:	No
Special precautions for user:	None
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable	

SECTION 15: Regulatory information

North American

SARA Section 311/312 (Specific toxic chemical listings):

Acute,Chronic

SARA Section 302 (Extremely hazardous substances):

None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):

80-05-7 Bisphenol A.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

TSCA Rules and Orders:

Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

80-05-7 Bisphenol A.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

108-88-3 Toluene.

Canada

DSL (Canadian Domestic Substances List):

All ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless

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specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-1-0

HMIS: 3-1-0

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