

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name: CIM 500 Part B

Product description: Castable resin - Part B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Common uses: Cast in motion.

1.3 Details of the supplier of the safety data sheet

N/A

E-mail address of person responsible for this SDS: N/A

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): N/A

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to GHS:

Acute Tox. 4 H302

Skin Corr. 1B H314

Eye Dam. 1 H318

Skin Sens. 1B H317

STOT RE 2 H373

STOT SE 3 H335

Classification according to 29 CFR 1910.1200 (OSHA HCS):

Acute Tox. 4 H302

Skin Corr. 1B H314

Eye Dam. 1 H318

Skin Sens. 1B H317

STOT RE 2 H373

STOT SE 3 H335

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Acute Tox. 4 H302

Skin Corr. 1B H314

Eye Dam. 1 H318

Skin Sens. 1B H317

STOT RE 2 H373

STOT SE 3 H335

See section 16 for the full text of the H-statements declared above.

2.2 Label elements

Labelling according to GHS:

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H373: May cause damage to organs through prolonged or repeated exposure.

H335: May cause respiratory irritation.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P316: Get immediate emergency medical help.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

Labelling according to 29 CFR 1910.1200 (OSHA HCS)Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H373: May cause damage to organs through prolonged or repeated exposure.

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Precautionary Statement(s):

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P316: Get immediate emergency medical help.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

Labelling in accordance with Regulation 1272/2008 (CLP)Hazard pictogram(s):

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Hazard statement(s):

H302: Harmful if swallowed.

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H373: May cause damage to organs through prolonged or repeated exposure.

H335: May cause respiratory irritation.

SAFETY DATA SHEET

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER/doctor.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314: Get medical advice/attention if you feel unwell.

2.3 Other hazard

Not available

SECTION 3: Composition / information on ingredients

3.2 Mixtures:

Ingredient name	Identifiers	%	CLP Classification	GHS Classification	OSHA HCS
4,4'-Diaminodicyclohexylmethane	CAS number: 1761-71-3 EC number: 217-168-8	32-<99	Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1B H317 STOT RE 2 H373	Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1B H317 STOT RE 2 H373	Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1B H317 STOT RE 2 H373
Copolymer of formaldehyde and aniline, hydrogenated	CAS number: 135108-88-2 EC number: 603-894-6	4-<20	Acute Tox. 3 H301 Skin Corr. 1C H314 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 2 H373 Aquatic Chronic 3 H412	Acute Tox. 3 H301 Skin Corr. 1C H314 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 2 H373 Aquatic Chronic 3 H412	Acute Tox. 3 H301 Skin Corr. 1C H314 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT RE 2 H373 Aquatic Chronic 3 H412
Boron nitride	CAS number: 10043-11-5 EC number: 233-136-6	2-40	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335	Skin Irrit. 2 H315 Eye Irrit. 2B H319 STOT SE 3 H335
Polyamine amide salt	CAS number: N/A EC number: N/A	<5	Skin Irrit. 2 H315	Skin Irrit. 2 H315	Skin Irrit. 2 H315

See section 16 for the full text of the H-statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of soap and water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable: Foam, carbon dioxide, dry chemical, dry sand.

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode. Cool containers exposed to flame with water spray until well after fire is out.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

6.4 Reference to other sections

See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors, spray, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from oxidizing agents and acids.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Occupational exposure limits values: N/A

8.2 Exposure controlsEngineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure. Butyl rubber, nitrile rubber, neoprene gloves, impervious gloves.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: White thick liquid

Odour: characteristic

Odour threshold: N/A

pH: N/A

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: N/A

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other information:

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid

Not available

10.5 Incompatible materials

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when 4,4'-Diaminodicyclohexylmethane and Copolymer of formaldehyde and aniline, hydrogenated come in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acid Sodium hypochlorite. Its slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Oxidizing agents.

10.6 Hazardous decomposition products

Other decomposition products: not available
In the event of fire: see section 5

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity:

Product/ingredient name	Test	Species	Dose
4,4'-Diaminodicyclohexylmethane	LD50, Oral	Rat	380 mg/kg
	LD50, Dermal	Rat	>2000 mg/kg
Copolymer of formaldehyde and aniline, hydrogenated	LD50, Oral	Rat	300 mg/kg

Skin corrosion/irritation: Causes severe skin burns.

Serious eye damage/irritation: Causes severe eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not available

Other effects: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause sore throat.

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia
4,4'-Diaminodicyclohexylmethane		LC50/96h (Leuciscus idus melanotus) > 100 mg/l	EC50/48h (Daphnia magna) 9.24 mg/l NOEC/21d (Daphnia magna) 4 mg/l
Polyamine amide salt		LC50/96h (Oncorhynchus mykiss (rainbow trout)) > 48 mg/l	EC50/48h (Daphnia magna (Water flea)) > 30 mg/l

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods**Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un numberADR/RID: 2735IMDG: 2735IATA: 2735DOT (US): 2735**14.2 UN proper shipping name**ADR/RID: AMINES, LIQUID, CORROSIVE, N.O.S. (Cycloaliphatic amine, Mixed Cycloaliphatic amines)IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. (Cycloaliphatic amine, Mixed Cycloaliphatic amines)IATA: Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Mixed Cycloaliphatic amines)DOT (US): Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Mixed Cycloaliphatic amines)**14.3 Transport hazard class(es)**ADR/RID: 8IMDG: 8IATA: 8DOT (US): 8**14.4 Packing group**ADR/RID: IIIMDG: IIIATA: IIDOT (US): II**14.5 Environmental hazard**

Marine pollutant: no

14.6 Special precautions for user

N/A

14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:
EU Regulation (EC) No.1907/2006 (REACH) including amendments
Regulation (EC) No.1272/2008 (CLP)
29 CFR 1910.1200 (OSHA HCS)
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureCalifornia Prop. 65 Components

To the best of our knowledge the product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA inventory

The substances in this product are included on or exempted from the TSCA inventory.

15.2 Chemical safety assessment

Not available

SECTION 16: Other information

Full text of Hazards Statements referred to in sections 2 and 3:

Acute Tox.- Acute toxicity
Skin Corr.- Skin corrosion
Eye dam.- Serious eye damage
Skin Sens. - Skin sensitization
Skin Irrit. - Skin irritation
Eye Irrit. - Eye irritation
STOT SE - Specific target organ toxicity — single exposure
STOT RE - Specific target organ toxicity — repeated exposure
Aquatic Chronic - Hazardous to the aquatic environment
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H315: Causes skin irritation.
H319: Causes eye irritation.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H412: Harmful to aquatic life with long lasting effects.

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS- Chemical Abstract Service
ACGIH- American Conference of Governmental Industrial Hygienists
OSHA- Occupational Safety and Health Administration
NTP- National Toxicology program
IARC- International Agency for Research on Cancer
N/A- Not available

SAFETY DATA SHEET

CIM 500 Part B

Page 9 of 9

H-statements- Hazard statements

TLV- Threshold Limit Value

TWA- Time-weighted average

STEL- Short-Term Exposure Limit

CSA- Chemical safety assessment

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