

ELASTUFF 200 ALIPHATIC PART B

PRODUCT NAME: ELASTUFF 200 ALIPHATIC PART B
PRODUCT CODE: EL-200-B-LG

~~~~ SECTION 1 ~~~~ MANUFACTURER IDENTIFICATION ~~~~

**Manufacturer's Name : UNITED COATINGS MANUFACTURING CO**  
**Address : 19011 EAST CATALDO AVE.**  
**: SPOKANE VALLEY, WASHINGTON 99016-9423**  
**: INITIAL (FIRST CALL) CHEMTREC (800) 424-9300**  
**INFORMATION PHONE : (509) 926-7143**  
**TOLL FREE : BACK-UP (800) 541-4383**  
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~~~~ SECTION 2 ~~~~ HAZARDOUS INGREDIENTS/SARA III INFORMATION ~~~~

| Reportable Components | CAS Number | MM HG @ Temp | Weight % |
|---|-------------|-----------------|----------|
| Cyclohexanamine, 4,4-methylenebis[N-(1-methylpropyl)- | 154279-60-4 | <.0120 | C |
| No exposure limits have been established | | | |
| ~ | | | |
| Polyoxypropylenediamine | 9046-10-0 | UNK UNK | 39 |
| No exposure limits established | | | |
| ~ | | | |
| Polyoxyalkyleneamine | 64852-22-8 | No Data No Data | 6 |
| No exposure limits have been established. | | | |
| ~ | | | |
| Titanium Dioxide | 13463-67-7 | N/A N/A | 6 |
| ACGIH total dust TLV-10mg/m3 | | | |
| OSHA Total Dust, 8 HR TWA, PEL-15 mg/m3, | | | |
| 5mg/m3 Respirable dust | | | |
| ~ | | | |
| Blocked cycloalphiatic diamine | 54914-37-3 | .5 77F/25C | 4 |
| No exposure limits established | | | |
| ~ | | | |
| Isophorone Diamine | 2855-13-2 | .02 20 C | 4 |
| No exposure limits established, HOWEVER | | | |
| Manufacturer of this material suggests using | | | |
| 0.1 mg/m3 (8&12 Hr) TWA as a guideline | | | |
| ~ | | | |

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present in the product base.

NOTE: If tinted may contain Carbon Black CAS#1333-86-4 AND/OR Crystalline Silica CAS#14808-60-7. If tinted DARK GRAY or BLACK consider these levels to be reportable

This MSDS may be used for other container sizes of this product. When parts A & B are combined, the hazard warnings for both components are present.

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~~~~ SECTION 3 ~~~~ HAZARDS IDENTIFICATION ~~~~

**Potential Health Effects**

**Eyes:**

Corrosive. Material can cause the following: Severe irritation, Perminant eye injury.

**Skin:**

May cause burns resulting in severe irritation with pain, redness and swelling, blister formation, and posible tissue destruction.May cause skin sensitization.

**Ingestion:**

Corrosive. May be fatal if swallowed. May cause severe burns to mouth, throat, and stomach.

**Inhalation:**

Corrosive. May cause burns resulting in permanent damage. May cause irritation of nose, throat and lungs with cough, difficulty breathing or shortness of breath; or pulmonary edema (fluid in the lungs) with cough, wheezing, abnormal lung sounds, possibly progressing to shortness of breath and bluish discoloration of the skin. Repeated inhalation may cause lung damage. Effects may be delayed.

~~~~ SECTION 4 ~~~~ FIRST AID MEASURES ~~~~

Eyes:

Check for and remove any contact lenses.Immediately flush with lots of water for at least 20 minutes. Consult a physician or ophthalmologist immediatel

Skin:

Wash affected skin areas thoroughly with soap and water for at least 20 minutes.Get medical attention if irritation or other ill effects develop or persist. Discard or decontaminate clothing and shoes before reuse.

Ingestion:

This material is corrosive.Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal. If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately.

Inhalation:

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Trained personnel only should administer oxygen. Prevent aspiration of vomit. Turn victims head to the side. Assure open airway.consult a physician immediately.

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Note to Physician:

Activated charcoal slurry taken within 30 minutes of product ingestion may reduce the level of toxicity of the mixture. A 5:1 ratio of charcoal to the material ingested is the recommended dosage. Activated charcoal should not be considered as an antidote: normal symptomatic treatment is recommended with or without the administration of activated charcoal.

~~~~ SECTION 5 ~~~~ FIRE FIGHTING MEASURES ~~~~

Flammable Properties**Flash Point:** 77 c**Lower Flammable Limits:** N/A**Upper Flammable Limit:** N/A**Auto Ignition Temperature:**

Not determined

Extinguishing Media:

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers

Special Fire Fighting Procedures:

As in any fire, NIOSH approved (SCBA) self-contained breathing apparatus and protective clothing should be worn. Respiratory and eye protection required for fire fighting personnel. Full protective equipment should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, use of an SCBA may not be required. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool

~~~~ SECTION 6 ~~~~ ACCIDENTAL RELEASE MEASURES ~~~~

Small Spill:

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions:WARNING: KEEP SPILLS AND CLEANING RUNOFFS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

NOTE: Spills on porous surfaces can contaminate groundwater.

Methods for cleaning up:Evacuate personnel to safe areas.

Ventilate the area.Floor may be slippery; use care to avoid falling.Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).Sweep up or vacuum spillage and collect in suitable container for disposal.

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Avoid breathing vapor. Avoid all contact.

Large Spill:

Use same procedure as small spill.

~~~~ SECTION 7 ~~~~ HANDLING AND STORAGE ~~~~

Handling & Storage:

Handling: Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required. Wash after handling and shower at end of work period. Avoid eye contact. Avoid skin contact. Do not breathe vapor.

Storage conditions: Avoid temperature extremes during storage; ambient temperature preferred. Store away from excessive heat (e.g. steampipes, radiators), from sources of ignition and from reactive materials. Store out of direct sunlight in a cool place. Keep containers tightly closed in a cool, well-ventilated place.

Other Precautions:

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Avoid breathing dust. Follow all msds/label precautions even after container is emptied because it may retain product residues. This material is a severe irritant. Wash after handling and shower at end of work period. Do not handle material near food or drinking water.

~~~~ SECTION 8 ~~~~ EXPOSURE CONTROLS/PERSONAL PROTECTION ~~~~

Engineering Controls:

Situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers.

Respiratory Protection:

Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Skin Protection:

*Material is corrosive. Gloves should extend above long sleeved shirt. Chemical resistant gloves determined to be impervious

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under the conditions of use

Eye Protection:

Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

~~~~ SECTION 9 ~~~~ PHYSICAL AND CHEMICAL PROPERTIES ~~~~

Boiling Range: 247 C - 2500-3000C

Specific Gravity(H2O=1): .9841

Vapor Density(Air=1): Not determined.

Evaporation Rate(N-Butyl Acetate=1) : Slower than ether.

Coating V.O.C.: 0.0 lb/gl Coating V.O.C.: 0 g/l

Material V.O.C.: 0.0 lb/gl Material V.O.C.: 0 g/l

Solubility in Water: Unknown

Appearance: Clear light colored mobile liquid **Odor:** Amine like

~~~~ SECTION 10 ~~~~ STABILITY & REACTIVITY DATA ~~~~

Stability:

Stable under normal conditions. Not sensitive to mechanical shock. Not sensitive to static discharge.

Conditions To Avoid:

Extremely hot or cold temperatures and mixing/applying in inadequately vented areas.

Incompatible Materials:

Avoid contact with oxidizing agents, and strong acids and metals.

Hazardous Decomposition Products

From hydrolysis in water, may yield isophorone diamine, isobutyldehyde. Thermal decomposition may yield carbon monoxide and carbon dioxide. Unidentified organic compounds in fumes and smoke may be formed during combustion.

Hazardous Polymerization:

Will not occur.

~~~~ SECTION 11 ~~~~ TOXICOLOGICAL INFORMATION ~~~~

*Data is for individual components of preparation.

Materials having a known chronic/accute effects on eyes:

Polyoxyalkyleneamine , CAS #9046-10-0

Rabbit 100 mg Severe eye irritation

Materials having a known dermal toxicity.

Titanium Dioxide CAS#13463-67-7 Dermal LD50 (rabbit) >10 g/kg

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Polyoxyalkyleneamine , CAS #9046-10-0

Dermal rabbit LD50(lethal dose,50 percent kill): 360 mg/kg MS-UC-E200B

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Effects:Lung, Thorax, or Respiration: Other changes;Blood: Hemorrhage;Skin: After systemic exposure: Dermatitis, other
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Polyoxypropylenediamine CAS#54914-37-3
Acute dermal toxicity LD50 rat:4150 MG/KG

Materials having a known oral toxicity.

Materials having a known Inhalation hazard:

Titanium Dioxide CAS#13463-67-7 LC50 (rat)>6.82 mg/l(4 hr)
~

Isophorone Diamine CAS#2855-13-2: rat lowest published toxicconcentration: 200 mg/m3/6 hour/9 day- intermittent.
Effects:Lung, Thorax, or Respiration: Other changes

Identified Carcinogens:

Aliphatic Diamine CAS#154279-60-4
Humans: Effect central nervous system

Identified Teratogens:

No animal data available.

Identified Reproductive toxins :

No animal data available.

Identified Mutagens:

No animal data available.

~~~~ SECTION 12 ~~~~ ECOLOGICAL INFORMATION ~~~~

**Ecotoxicological effects on plants and animals:**

Titanium Dioxide CAS#13463-67-7 96 Hr LC50 (Fathead minnows)>1,000 mg/l  
~

Polyoxypropylenediamine CAS#54914-37-3  
Toxicity to fish:LC50 Bachydanio reio:110 mg/l/96h  
Toxicity to algae:LC50 Scenedesmus subspicatus:37 mg/l/72h  
~

Aliphatic Diamine CAS#154279-60-4  
Toxicity to fish:Rainbow trout:LCLo Inhalation  
Toxicity to algae:LCLo Inhalation  
Toxicity to daphanids:LCLo Inhalation

**Chemical Fate :**

Polyoxypropylenediamine CAS#54914-37-3  
42% Readily biodegradeable

~~~~ SECTION 13 ~~~~ DISPOSAL CONSIDERATIONS ~~~~

Instructions:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment storage and disposal for hazardous and/or nonhazardous wastes. Generally your local waste transfer station can advise you. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and

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regulations. Regulations may also vary in different locations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Refer to 40 CFR Section 261, and/or any other appropriate federal, state, provincial, or local requirements for proper classification information.

Do not allow into any sewers, on the ground, or into any body of water.

~~~~ SECTION 14 ~~~~~ TRANSPORT INFORMATION ~~~~~

Shipping Information:

DOT INFORMATION - 49 CFR 173
 DOT Description: Isophoronediamine Mixture
 8, UN2289, Pg III.

~~~~ SECTION 15 ~~~~~ REGULATORY INFORMATION ~~~~~

(Not meant to be all inclusive-selected regulations represented)

US Regulations:

Status Of Substances Lists:

The Concentrations Shown In Section II Are Maximum Ceiling Levels (Weight %) to be used for calculations for regulations. A reportable quantity is a quantity of a hazardous substance that triggers reporting requirements under the Comprehensive Environmental Response Compensation And Liability Act (CERCLA).

If a spill of a substance exceeds it's reportable quantity (RQ) in CFR 302.3, Table 40 302.4 Appendix A & 302.4 Appendix B, the release must be reported to The National Response Center At (800) 424-8802, The State Emergency Response Commission (SERC), And community emergency coordinators likely to be affected.

Components present that could require reporting under the statute are:

None

Superfund Amendments And Reauthorization Act Of 1986 (SARA) Title III Requires emergency planning based on the Threshold Quantities (TPQ'S) and release reporting based on Reportable Quantities (RQ'S) In 40 CFR 355 Appendix A&B Extremely Hazardous Substances. The emergency planning and release requirements of 40 CFR 355 apply to any facility at which there is present any amount of any extremely hazardous substance (EHS) equal to or in excess of it's Threshold Planning Quantity (TPQ).

Components present that could require reporting under the statute are:

None known.

EPCRA 40 CFR 372 (Section 313) Requires EPA and the States to annually collect data on releases of certain toxic materials from industrial facilities, and make the data available to the public in the Toxics Release Inventory (TRI). This information must be included in all

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MSDS'S that are copied and distributed or compiled for this material.
Reporting Threshold: Standard: A facility must report if it manufactures (including imports) or processes 25,000 pounds or more or otherwise uses 10,000 pounds or more of a listed toxic chemical during the calendar year.

Components present that could require reporting under the statute are:

See Section II

The components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) chemical substance inventory. Mixtures shall be assumed to present the same health hazards as do the Components Which Comprise One Percent (By Weight Or Volume) or greater of the Mixture, except that the mixture shall be assumed to present carcinogenic hazard if it has a component in concentrations of 0.1 percent greater. For a list of hazardous ingredients:

See Section II

the remaining percentage of unspecified ingredients, if any, are not contained in above DeMinimis concentrations and/or are believed to be non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200), and may consist of pigments, fillers, defoamers, wetting agents, resins, dryers, anti-bacterial agents, water and/or solvents in varying concentrations.

International Regulations:**Canadian WHMIS:**

CLASS D - POISONOUS AND INFECTIOUS MATERIALS
Division 1 Materials Causing Immediate and Serious Toxic Effects
Subdivision B - Toxic Materials
Division 3 Biohazardous Infectious Materials
CLASS E - CORROSIVE MATERIALS

Canadian Environmental Protection Act (CEPA):

All of the components of this product are exempt or listed on the DSL. See Section II For Composition/Information on Ingredients

EINECS:

These components are listed in EINECS inventory
Titanium Dioxide CAS#13463-67-7 EINECS#:236-675-5
Isophorone Diamine CAS#2855-13-2 EINECS#:220-666-8
Polyoxypropylenediamine CAS#54914-37-3 EINECS#:259-393-4

State Regulations:**California:**

California Proposition 65: The following Statement is made in order to comply with The California Safe Drinking Water and Toxic Enforcement Act of 1986

"WARNING: This product contains the chemical(s) appearing below known to the State of California to:

A: Cause Cancer

None known.

*If tinted contains Carbon Black: CAS#1333-86-4 and may also contain trace amounts of Crystalline Silica: CAS#14-808-60-7

B: Cause Birth Defects or other Reproductive Harm :

MS-UC-E200B

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None known.

In addition to the above named chemical(s) (if any), this product may contain trace amounts of chemicals, known to the State of California, to cause Cancer or Birth Defects and other Reproductive Harm

Delaware:

Listed on the Delaware Air Quality Management List:
None known.

Florida:

None known.

Massachusetts:

Titanium Dioxide CAS#13463-67-7 SUBSTANCE CODES:4

Michigan:

None known

Minnesota:

Titanium Dioxide CAS#13463-67-7
Listed In The Minnesota Hazardous Substances List:
Codes: A
Hazards: --
Carcinogen? NO

New Jersey:

None known.

New York:

None known.

Pennsylvania:

Titanium Dioxide CAS#13463-67-7 CODE:--

Washington:

| | | |
|-------------------------------|----------------|----------------|
| Titanium Dioxide (Total Dust) | CAS#13463-67-7 | |
| Washington Air Contaminant: | ppm | mg/Cubic Meter |
| TWA | UNK | 10 |
| STEL | UNK | UNK |
| CEILING | UNK | UNK |
| SKIN:UNK | | |

~~~~ SECTION 16 ~~~~ OTHER INFORMATION ~~~~

**HMIS® III**

**Health** : 3\*  
**Flammability** : 1  
**Physical Hazard** : 1

\*Following Health rating Indicates Chronic/Carcinogenic Effects

**HMIS® III Personal Protection : J**

This rating is for the product as it is packaged. This rating will need to be adjusted by the user based on conditions of use.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them & determine the suitability & completeness of information from all sources to assure proper use & disposal of these materials & the safety & health of employees & customers. The information contained herein relates only to the specific material identified. United Coatings believes that such

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