

Eucatex Eucafiber, Euca plac, Eucatile, Eucaboard, Hardboard, MDF, HDF

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations and According to The Hazardous Products Regulation (February 11, 2015).

SECTION 1: IDENTIFICATION

1. Product Identifier

Product Form: Mixture

Product Name: MDF/HDF, Decoratively Surfaced MDF/HDF

Synonyms: Eucafiber, Euca plac, Hardboard, Tileboard, MDF, HDF, TFL, Paint/Print

Product Description: A panel product manufactured from ligno-cellulosic materials bonded together with a synthetic resin or other suitable binder, and which may contain additives.

2. Intended Use of the Product

Re-manufacturing, construction, lamination and furniture processes.

3. Name, Address, and Telephone of the Responsible Party

Company

Eucatex North America

11475 Great Oaks Way

Suite 310

Alpharetta, GA 30022

(678) 624-0160

<https://www.eucatex.com/br/en/>

4. Emergency Telephone Number

Emergency Number: (678) 624-0160 (Monday – Friday, 9:00am ET – 5:30pm ET)

SECTION 2: HAZARDS IDENTIFICATION

This is a wood product composed of wood and cured amino resins. Wood Dust: the hazard information denoted in this SDS apply only when the product is altered downstream by cutting, sawing, sanding, heating or other means and significant dust or fume is generated. In its shipped and finished form, this product is not considered hazardous. Formaldehyde: This product contains less than 0.1% free formaldehyde. Residual formaldehyde gas may be released from this product. The amount and level will depend on local conditions of use. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. Formaldehyde may cause cancer.

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

| | |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Resp. Sens. 1 | H334 |
| Skin Sens. 1 | H317 |
| Carc. 1A | H350 |
| STOT SE 3 | H335 |
| STOT RE 1 | H372 |
| Comb. Dust | |

Full text of hazard classes and H-statements : see section 16

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2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)

: Danger

Hazard Statements (GHS-US/CA)

: May form combustible dust concentrations in air if converted to small particles during further processing, handling, or by other means.
 H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 - May cause respiratory irritation.
 H350 - May cause cancer (Inhalation).
 H372 - Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust or fume.
 P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves, protective clothing, and eye protection.
 P284 - [In case of inadequate ventilation] wear respiratory protection.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - If exposed or concerned: Get medical advice/attention.
 P312 - Call a POISON CENTER or doctor if you feel unwell.
 P314 - Get medical advice/attention if you feel unwell.
 P321 - Specific treatment (see section 4 on this SDS).
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P405 - Store locked up.
 P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Supplemental Information

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Prevent dust accumulation (to minimize explosion hazard). Avoid generating dust.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

1. Substance

Not applicable

2. Mixture

| Name | Product Identifier | % * | GHS Ingredient Classification |
|---|--------------------------|-----------|---|
| Ligno-cellulosic materials | (CAS-No.) Not applicable | 76 - 93 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Comb. Dust |
| Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine | (CAS-No.) 25036-13-9 | <= 18 | Flam. Liq. 3, H226 Eye Irrit. 2, H319 |
| Urea, polymer with formaldehyde | (CAS-No.) 9011-05-6 | <= 17.2 | Not classified |
| Water | (CAS-No.) 7732-18-5 | 2.4 - 6.3 | Not classified |
| Ammonium polyphosphate | (CAS-No.) 68333-79-9 | 1.8 - 5.4 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 |
| Urea | (CAS-No.) 57-13-6 | 0.09 - 4 | Comb. Dust |
| Formaldehyde-melamine polymer* | (CAS-No.) 9003-08-1 | <= 2.8 | Not classified |
| Slack wax, petroleum | (CAS-No.) 64742-61-6 | 0.25 - 2 | Not classified |
| Titanium dioxide* | (CAS-No.) 13463-67-7 | <= 1.55 | Carc. 2, H351 |
| Carbon black* | (CAS-No.) 1333-86-4 | <= 1 | Carc. 2, H351 Comb. Dust |
| Ammonium chloride | (CAS-No.) 12125-02-9 | <= 0.4 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Acute 3, H402 Comb. Dust |
| Ammonium sulfate | (CAS-No.) 7783-20-2 | <= 0.3 | Aquatic Acute 3, H402 |
| Formaldehyde | (CAS-No.) 50-00-0 | < 0.1 | Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401 |
| Diethylene glycol* | (CAS-No.) 111-46-6 | <= 0.05 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |

Full text of H-phrases: see section 16

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Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Ingredients noted with * are ingredients used in either TFL or painted/printed decorative surfacing. This is a wood product composed of wood and cured amino resins. The hazard information denoted in this SDS apply only when the product is altered downstream by cutting, sawing, sanding, heating or other means and significant dust or fume is generated. In its shipped and finished form, this product is not considered hazardous. This product contains less than 0.1% free formaldehyde. Residual formaldehyde gas may be released from this product. The amount and level will depend on local conditions of use. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. Formaldehyde may cause cancer.

SECTION 4: FIRST AID MEASURES

1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). May cause cancer (Inhalation).

Inhalation: Irritation of the respiratory tract and the other mucous membranes. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Dust may be harmful or cause irritation.

Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but will burn at high temperatures. Dust generated from processing may present a dust explosion hazard.

Explosion Hazard: The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Dust explosion hazard in air.

Reactivity: Hazardous reactions will not occur under normal conditions.

3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Sodium oxides. Potassium oxides. Titanium oxides. Sulfur oxides. ammonium chloride. Amines. Aldehydes. Hydrogen cyanide. Ammonia. Phosphorous oxide. Formaldehyde. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

Other Information: Fine dust dispersed in air may ignite.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid generating dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Remove ignition sources. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

2. Environmental Precautions

Prevent entry to sewers and public waters.

3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. For particulates and dust: Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Use only non-sparking tools. Contact competent authorities after a spill.

4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

1. Precautions for Safe Handling

Additional Hazards When Processed: Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. For particulates and dust: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes, skin and clothing. Do not breathe dust. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. For particulates and dust: Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

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Storage Conditions: Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Building Materials –Decorative, Furniture, General Construction

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL).

| | | |
|---|--------------------------------------|---|
| Wood dust, all soft and hard woods | | |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ |
| Urea (57-13-6) | | |
| USA AIHA | WEEL TWA (mg/m ³) | 10 mg/m ³ |
| Formaldehyde (50-00-0) | | |
| USA ACGIH | ACGIH TWA (ppm) | 0.1 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 0.3 ppm |
| USA ACGIH | ACGIH chemical category | dermal sensitizer, Confirmed Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (ppm) | 0.75 ppm |
| USA OSHA | OSHA PEL (STEL) (ppm) | 2 ppm (see 29 CFR 1910.1048) |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 0.016 ppm |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 0.1 ppm |
| USA IDLH | US IDLH (ppm) | 20 ppm |
| Titanium dioxide (13463-67-7) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| USA ACGIH | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) |
| USA IDLH | US IDLH (mg/m ³) | 5000 mg/m ³ |
| Carbon black (1333-86-4) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ (inhalable particulate matter) |
| USA ACGIH | ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 3.5 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons) |
| USA IDLH | US IDLH (mg/m ³) | 1750 mg/m ³ |
| Diethylene glycol (111-46-6) | | |
| USA AIHA | WEEL TWA (mg/m ³) | 10 mg/m ³ |
| Ammonium chloride (12125-02-9) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ (fume) |
| USA ACGIH | ACGIH STEL (mg/m ³) | 20 mg/m ³ (fume) |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 10 mg/m ³ (fume) |

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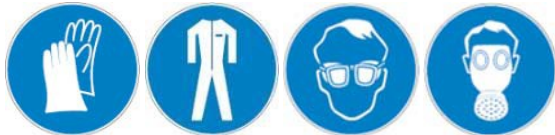
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8.2. Exposure Controls

Appropriate Engineering Controls: The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

| | |
|----------------------------------|---|
| Physical State | : Solid |
| Appearance | : MDF panel; Straw yellow (light brown) |
| Odor | : No distinctive odor |
| Odor Threshold | : Not available |
| pH | : Not available |
| Evaporation Rate | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : Not available |
| Flash Point | : Not available |
| Auto-ignition Temperature | : 425 - 475 °F (218.33 - 246.11 °C) |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |

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| | |
|---|-----------------------|
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20°C | : Not available |
| Relative Density | : Not available |
| Specific Gravity | : Not available |
| Solubility | : Insoluble in water. |
| Partition Coefficient: N-Octanol/Water | : Not available |
| Viscosity | : Not available |
| VOC content | : 0 % |

SECTION 10: STABILITY AND REACTIVITY

- 1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard).
- 5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 6. Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Irritating fumes. Formaldehyde. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

- Acute Toxicity (Oral):** Not classified
- Acute Toxicity (Dermal):** Not classified
- Acute Toxicity (Inhalation):** Not classified
- LD50 and LC50 Data:** Not available
- Skin Corrosion/Irritation:** Causes skin irritation.
- Eye Damage/Irritation:** Causes serious eye irritation.
- Respiratory or Skin Sensitization:** May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- Germ Cell Mutagenicity:** Not classified
- Carcinogenicity:** May cause cancer (Inhalation).
- Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).
- Reproductive Toxicity:** Not classified
- Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.
- Aspiration Hazard:** Not classified
- Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Dust may be harmful or cause irritation.
- Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
- Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.
- Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

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Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|--|---|
| Urea, polymer with formaldehyde (9011-05-6) | |
| LD50 Oral Rat | 8394 mg/kg |
| LD50 Dermal Rat | > 2100 mg/kg |
| LC50 Inhalation Rat | > 167 mg/m ³ (Exposure time: 4 h) |
| Urea (57-13-6) | |
| LD50 Oral Rat | 8471 mg/kg |
| Ammonium sulfate (7783-20-2) | |
| LD50 Oral Rat | > 2000 mg/kg |
| Formaldehyde (50-00-0) | |
| LD50 Oral Rat | 100 mg/kg |
| LD50 Dermal Rat | 270 mg/kg |
| ATE US/CA (gas) | 700.00 ppmV/4h |
| Titanium dioxide (13463-67-7) | |
| LD50 Oral Rat | > 10000 mg/kg |
| Carbon black (1333-86-4) | |
| LD50 Oral Rat | > 8000 mg/kg |
| Formaldehyde-melamine polymer (9003-08-1) | |
| LD50 Oral Rat | > 10 g/kg |
| LD50 Dermal Rabbit | > 10 g/kg |
| Diethylene glycol (111-46-6) | |
| LD50 Oral Rat | 1120 mg/kg |
| LD50 Dermal Rabbit | 11890 mg/kg |
| Ammonium chloride (12125-02-9) | |
| LD50 Oral Rat | 1650 mg/kg |
| Ammonium polyphosphate (68333-79-9) | |
| LD50 Oral Rat | 300 - 2000 mg/kg |
| Wood dust, all soft and hard woods | |
| IARC Group | 1 |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| Formaldehyde (50-00-0) | |
| IARC Group | 1 |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| OSHA Specifically Regulated Carcinogen List | In OSHA Specifically Regulated Carcinogen list. |
| Titanium dioxide (13463-67-7) | |
| IARC Group | 2B |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| Carbon black (1333-86-4) | |
| IARC Group | 2B |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

| | |
|--|--|
| Urea (57-13-6) | |
| LC50 Fish 1 | 16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata) |
| EC50 Daphnia 1 | 3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| Ammonium sulfate (7783-20-2) | |
| LC50 Fish 1 | 53 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 121.7 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Formaldehyde (50-00-0) | |
| LC50 Fish 1 | 22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 Fish 2 | 1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 2 | 11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| Carbon black (1333-86-4) | |
| EC50 Daphnia 1 | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| Diethylene glycol (111-46-6) | |
| LC50 Fish 1 | 75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 84000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Ammonium chloride (12125-02-9) | |
| LC50 Fish 1 | 209 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static]) |
| EC50 Daphnia 1 | 161 mg/l |
| LC50 Fish 2 | 42.91 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| NOEC Chronic Fish | 8 mg/l |
| NOEC Chronic Crustacea | 14.6 mg/l |
| Ammonium polyphosphate (68333-79-9) | |
| LC50 Fish 1 | > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| LC50 Fish 2 | 123 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |

2. Persistence and Degradability

| | |
|---|------------------|
| MDF, Vesta ULEF MDF, Decoratively Surfaced | |
| Persistence and Degradability | Not established. |

3. Bioaccumulative Potential

| | |
|---|------------------|
| MDF, Vesta ULEF MDF, Decoratively Surfaced | |
| Bioaccumulative Potential | Not established. |
| Urea (57-13-6) | |
| BCF Fish 1 | < 10 |
| Log Pow | -1.59 (at 25 °C) |
| Ammonium sulfate (7783-20-2) | |
| Log Pow | -5.1 (at 25 °C) |
| Formaldehyde (50-00-0) | |
| Log Pow | 0.35 (at 25 °C) |
| Diethylene glycol (111-46-6) | |
| BCF Fish 1 | 100 - 180 |
| Log Pow | -1.98 (at 25 °C) |

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4. Mobility in Soil Not available

5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

1. In Accordance with DOT Not regulated for transport

2. In Accordance with IMDG Not regulated for transport

3. In Accordance with IATA Not regulated for transport

4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

| | |
|---|---|
| MDF, HDF, Decoratively Surfaced | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard Sudden release of pressure hazard |
| Urea, polymer with formaldehyde (9011-05-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
| Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine (25036-13-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
| Slack wax, petroleum (64742-61-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Urea (57-13-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Ammonium sulfate (7783-20-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Formaldehyde (50-00-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on the United States SARA Section 302 | |
| Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 100 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 lb |

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| | |
|---|---|
| SARA Section 313 - Emission Reporting | 0.1 % |
| Titanium dioxide (13463-67-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Carbon black (1333-86-4) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Formaldehyde-melamine polymer (9003-08-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
| Diethylene glycol (111-46-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Ammonium chloride (12125-02-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| CERCLA RQ | 5000 lb |
| Water (7732-18-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Ammonium polyphosphate (68333-79-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

15.2. US State Regulations

| | |
|--|--|
| Wood dust, all soft and hard woods | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Formaldehyde (50-00-0) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Titanium dioxide (13463-67-7) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Carbon black (1333-86-4) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Wood dust, all soft and hard woods | |
| U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Ammonium sulfate (7783-20-2) | |
| U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Formaldehyde (50-00-0) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List | |
| Titanium dioxide (13463-67-7) | |

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| |
|---|
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |
| Carbon black (1333-86-4) |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List |
| Diethylene glycol (111-46-6) |
| U.S. - Pennsylvania - RTK (Right to Know) List |
| Ammonium chloride (12125-02-9) |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List |

15.3. Canadian Regulations

| |
|---|
| Urea, polymer with formaldehyde (9011-05-6) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine (25036-13-9) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Slack wax, petroleum (64742-61-6) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Urea (57-13-6) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Ammonium sulfate (7783-20-2) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Formaldehyde (50-00-0) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Titanium dioxide (13463-67-7) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Carbon black (1333-86-4) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Formaldehyde-melamine polymer (9003-08-1) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Diethylene glycol (111-46-6) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Ammonium chloride (12125-02-9) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Water (7732-18-5) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Ammonium polyphosphate (68333-79-9) |
| Listed on the Canadian DSL (Domestic Substances List) |

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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 05/17/19

Revision

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

| | |
|-------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Carc. 1A | Carcinogenicity Category 1A |
| Carc. 2 | Carcinogenicity Category 2 |
| Comb. Dust | Combustible Dust |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Muta. 2 | Germ cell mutagenicity Category 2 |
| Resp. Sens. 1 | Respiratory sensitization, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H334 | May cause an allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |

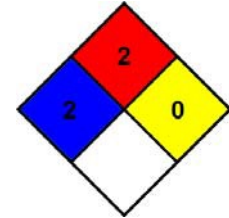
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| | |
|------|---|
| H351 | Suspected of causing cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |

- NFPA Health Hazard** : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA Fire Hazard** : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
- NFPA Reactivity Hazard** : 0 - Material that in themselves are normally stable, even under fire conditions.



- HMIS III Rating**
- Health** : 2 Moderate Hazard - Temporary or minor injury may occur
* Chronic - Chronic (long-term) health effects may result from repeated overexposure
- Flammability** : 3 Serious Hazard
- Physical** : 0 Minimal Hazard

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information contained in this Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if the product is suitable for its proposed application(s) and to follow necessary safety precautions. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

NA GHS SDS 2019 (Can, US, Mex)

Prop 65 Warning

⚠ WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.