

Safety Data Sheet

SuStain Exterior Wood Finish - Code 1041

Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Effective Date: November 12, 2015



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name: SuStain Exterior Wood Finish

Product Class: Compliant Satin

Manufacturer's I.D.: LH-181 (1041)

CAS Number: N/A – Mixture

Index Number: N/A – Mixture

Index Number: N/A – Mixture

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

Identified Uses: Ingredient in varnish coatings. For industrial use only.

Uses Advised Against: N/A

1.3 Details of the Supplier of the safety data sheet

Company: Lanning Chemical Co. Inc.
3000 Griffiths Ave.
Louisville, KY 40212

Phone: 502-776-8330

1.4 Emergency Telephone Number

For Emergencies Involving a Spill, Leak, Fire, Exposure, or Accident

Contact CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

OSHA Hazards: Flammable liquid, target organ effect.

Overexposure targets the following organs: Central nervous system, eyes, gastrointestinal tract, respiratory system and skin.

Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3)

Aspiration toxicity (Category 1)

Skin irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3: Central nervous system)

Aquatic chronic toxicity (Category 2)

See Sections 15.3 and 15.4 for additional comments concerning the classification of this product.

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2. HAZARDS IDENTIFICATION, continued

2.2 Label Elements

GHS Label Elements, including precautionary statements:

Pictogram:



Signal Word: Danger.

Hazard Statement(s):

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233	Keep container tightly closed.
P240	Ground / bond container and receiving equipment.
P241	Use explosion-proof electrical systems and equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P370 + P378	In case of fire: Use carbon dioxide, dry chemical, foam or water fog for extinction.
P260	Do not breathe mist, vapors, or spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P315	Get immediate medical advice/attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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2. HAZARDS IDENTIFICATION, continued

2.2 Label Elements - continued

Precautionary Statement(s) - continued:

P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents / container to an approved waste facility

Supplemental Hazard Information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
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2.3 Other Hazards:

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula: Mixture, proprietary

Molecular Weight: Mixture, proprietary

3.2 Mixtures

Description of the mixture:

Varnish resin dispersed in a mixture of solvents

Summary of Information Included:

All hazardous constituents with a concentration of 1% or greater, or 0.1% or greater if the constituent is a PBT/vPvB substance or otherwise required by the OSHA Hazard Communication Standard, are listed in Section 3.2.1 below. Other (non-hazardous) ingredients are listed in Section 3.2.2 for the purpose of accounting for 100% of the mixture. This is the only section of the SDS that lists non-hazardous constituents.

Information listed as “proprietary” is being withheld as a trade secret or confidential business information. Regardless, the properties and effects of all known hazardous ingredients are included as applicable in each section of this Safety Data Sheet.

The classification hazard(s) of each of the hazardous ingredients is provided in Section 3.2.3, along with the reason(s) for listing the chemical as hazardous. Refer to Sections 15.3 and 15.4 for additional information concerning any pending registrations or the justification for the classification.

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3. COMPOSITION/INFORMATION ON INGREDIENTS, continued

3.2.1 Hazardous Ingredients

Ingredient	CAS #	Wt %*	Synonyms
Hydrotreated Petroleum Distillates	64742-89-8	4.83%	Distillates (petroleum), hydrotreated light; Mineral spirits;
Parachlorobenzotriflouri	98-56-6	22.38%	PCBTF
Stoddard Solvent	8052-41-3	16.41%	Mineral Spirits

3.2.2 Other (Non-Hazardous) Ingredients

Ingredient	CAS #	EC #	Index #	Wt %*	Synonyms
Linseed Oil	8001-26-1	--	--	36.8.0%	N/A

3.2.3 Classification**

Ingredient	CAS #	Reason Listed	Classification per Regulation (EC) No. 1272/2008 (CLP)
Hydrotreated Petroleum Distillates	64742-89-8	1,2	H225 (2), H304 (1), H315 (2), H336 (3), H411 (2)

1. Substance is classified with a health or environmental hazard
2. Substance has a workplace exposure limit
3. Substance meets the criteria for PBT per Regulation (EC) No. 1907/2006, Annex XIII
4. Substance meets the criteria for vPvB per Regulation (EC) No. 1907/2006, Annex XIII

* The % by weight may vary slightly but will not impact the hazard review or classification .

** See Sections 15.3 and 15.4 for a discussion of the classification determination and European Union requirements.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Overexposure: Remove to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention. If breathing is difficult, give oxygen and seek medical attention.

Eye Contact: Flush with large quantities of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash affected skin with soap and water for 15 minutes. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy or thoroughly clean shoes before reuse.

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4. FIRST AID MEASURES, continued

4.1 Description of first aid measures, continued

Ingestion: DO NOT induce vomiting. Have victim rinse mouth out with water, and then drink sips of water to remove taste from mouth. In general no treatment is necessary unless large quantities are swallowed. However, IMMEDIATE medical advice should be obtained.

If the victim is coughing, choking, has shortness of breath, or difficulty breathing, transport to the nearest medical facility for additional treatment.

If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F, shortness of breath, chest congestion or continued coughing or wheezing.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

4.2 Most important symptoms and effects, both acute and delayed

Repeated or prolonged contact can cause skin irritation, redness, and drying. Eye contact can cause moderate to severe irritation, redness, or swelling. Inhalation of mist or vapors causes irritation to eyes, nose, and throat.

4.3 Indication of any immediate medical attention and special treatment needed

Ingestion requires immediate medical attention. Any signs of aspiration must be treated immediately. No data available on other exposure. Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires. Use aqueous foam or water for larger fires. For large fires, water should be applied from as far away as possible. Water should be applied in very large quantities as a mist or spray; solid streams of water may be ineffective.

5.2 Special hazards arising from the substance or mixture

Sealed containers may rupture when exposed to fire or excessive heat due to build-up of pressure

5.3 Advice for firefighters

Special Fire Fighting Procedures: Remove all ignition sources from affected and potentially affected areas. Use water to cool fire-exposed structures and containers.

Special Protective Equipment: Fire fighters should wear self-contained breathing apparatus and complete personal protective equipment operated in a pressure demand or other positive pressure mode.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing to prevent unnecessary skin contact and to avoid overexposure to vapors. Use non-sparking tools and equipment.

6.2 Environmental precautions

Prevent runoff from entering drains, sewers, streams or other waterways.

6.3 Methods and material for containment and cleaning up

Ventilate the spill area. Dike spill area, soak up with a non-combustible absorbent material, and place in a closed container.

Notification and reporting

Spills or releases to the environment may be reportable. See Section 15 for United States federal reporting requirements. For all other locations, consult appropriate regulations to determine possible reporting requirements prior to using this product.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors and mists. Use in cool, well-ventilated area. Minimize the amount of vapor present by keeping containers closed when not in use and handling in an enclosed system where possible. Ground containers or take other measures to prevent the build-up of a static charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool location. Keep away from excessive heat and open flames.

7.3 Specific end uses

Ingredient in the formulation of varnish coatings.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Hazardous Ingredients		Workplace Control Parameters ¹			
Ingredient	CAS #	OSHA PEL	OSHA STEL	ACGIH TWA	ACGIH STEL
Hydrotreated Petroleum Distillates	64742-89-8	500 ppm	N/A	200 ppm	N/A
PCBTF	98-56-6	ND	ND	ND	ND
Mineral Spirits	8052-41-3	100	100	100	ND

1 - Workplace control parameters may vary. Please consult the listing for the country where this product will be used to determine the relevant exposure limits.

“N/A” = Information is Not Available

“C” = Ceiling limit value

8.2 Exposure Controls

Appropriate engineering controls: Use local exhaust if necessary to maintain concentrations well below exposure limits. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work day.

Personal protective equipment

Eye Protection: Chemical splash goggles. Wear a full face shield if splashing is possible to prevent unnecessary eye contact.

Skin (Hand) Protection: For operations where contact can occur, wear impervious gloves to avoid unnecessary skin contact. Review published literature and glove manufacturer data to determine suitable gloves. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for anticipated use conditions.

Skin (Body) Protection: Wear impervious clothing as necessary to prevent unnecessary skin contact.

Respiratory Protection: Use a properly fitted organic vapor or self-contained breathing apparatus appropriate to the manner in which the product is handled where excessive vapor, mists or aerosols are present. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other Protective Equipment: For operations where contact can occur, a safety shower and eye wash facility should be available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical State: Liquid

Form: Liquid

Color: Amber; turbid

Odor: Characteristic solvent odor

Odor Threshold: Not determined

pH: No data available

Melting Point: No data available

Boiling Range: 157.8-207°C (316-405°F)

Flash Point: 41.7°C (107°F) CC

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Lower Explosion Limit (LEL): 0.9% (estimated)

Upper Explosion Limit (LEL): 7.0% (estimated)

Vapor Pressure at 20 °C: 0.12 mm Hg (estimated)

Vapor Density: Heavier than air

Density (Specific Gravity): 8.22 + 0.15 lbs/gallon (0.92 g/mL)

Solubility in Water: Insoluble

Partition Coefficient (n-octanol / water): No data available

Dynamic Viscosity: 110 mPa s (cps) @ 20 °C / 27.5 mPa s (cps) @ 40 °C

Kinematic Viscosity: 14.9 mm² / s @ 20 °C / 3.7 mm² / s @ 40 °C (calculated)

Explosive Properties: No data available

Oxidizing Properties: No data available

Other Information

Evaporation Rate: Slower than Butyl Acetate

Percent Volatile by Weight: 41.7 %

VOC: 304 g/l

9.2 Other safety information

No data available

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10. STABILITY AND REACTIVITY

- 10.1 **Reactivity:** None known
- 10.2 **Chemical stability:** Stable
- 10.3 **Possibility of hazardous reactions:** Hazardous polymerization will not occur
- 10.4 **Conditions to avoid:** Excessive heat, sparks, or open flame.
- 10.5 **Incompatible materials:** Strong oxidizing agents.
- 10.6 **Hazardous decomposition products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

This product has not been tested for acute or chronic toxicological effects. The toxicological information presented below is for the product components:

ACUTE TOXICITY:

Petroleum Naphtha, CAS# 64742-89-8

LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation, Rat)	LD ₅₀ (Skin, Rabbit)
> 5,000 mg/kg	> 5.2 mg/l	> 3000 mg/kg

EFFECTS OF OVEREXPOSURE:

Vapors: Mist or vapors causes irritation to eyes, nose, and throat. Excessive exposure may result in headache, dizziness, nausea, drowsiness and slurred speech.

Skin Contact: Solvent components degrease the skin. Repeated or prolonged contact can cause minor to moderate skin irritation, drying, and cracking.

Eye Contact: Contact can cause moderate to severe irritation, including tearing, burning sensation, redness, or swelling.

Ingestion: The oral toxicity of this product is expected to be low. However, the product contains petroleum distillates which can affect the respiratory system. Aspiration of small amounts of petroleum distillates directly into the lung, or into the lung during vomiting if ingested, can cause chemical pneumonia, pulmonary damage, and death. Petroleum distillates with low viscosity, such as gasoline, kerosene, and mineral seal oil, possess the greatest potential for aspiration. The viscosity of this product indicates that aspiration is possible if ingested.

Medical Conditions Prone To Aggravation By Exposure: Respiratory tract irritation, dermatitis, nausea, and vomiting.

Primary Routes of Entry: Inhalation, Skin Contact, Absorption through the skin.

Carcinogenicity: NTP (Known): No; **NTP (Anticipated):** No; **IARC Category:** 3¹; **OSHA:** N/A

1 This product contains Petroleum Solvents (~30% Petroleum Naphtha) which are listed in IARC Category 3. Category 3 is used most commonly for agents, mixtures and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals. Exceptionally, agents (mixtures) for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans. Agents, mixtures and exposure circumstances that do not fall into any other group are also placed in this category.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity: No information is available concerning ecological data for this product. The information presented below is for the product components.

Petroleum Naphtha, CAS# 64742-89-8

Test type: LC₅₀ (Fish)

Test type: EC₅₀ (Daphnia)

Test type: EC₅₀ (Algae)

Time: 96 hr

No data available

No data available

Species: Rainbow Trout

Value: 2.9 mg/l

12.2 Information on toxicological effects: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: No data available

12.6 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Incinerate in an approved incinerator or dispose of according to applicable local, state / provincial, and federal regulations.

General information

Dispose of according to all applicable local, regional and national laws or regulations. Use appropriately licensed disposal services to manage this flammable liquid. Do not reuse empty containers.

Empty containers: Empty containers which have not been cleaned possess residual product and should be handled in the same way as full containers of this product. Recipients of these containers must be warned of the possible hazard(s) that may be caused by product residues.

RCRA (United States) INFORMATION: Since this product is not sold as waste, we have not tested it as a waste. Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe that this product could be considered to be a RCRA ignitable waste, D001. We recommend that you carry out your own tests and evaluations prior to discarding any materials and that any waste is disposed of in accordance with all applicable federal, state or provincial, and local regulations

European Waste Codes: Since this product is not sold as waste, we have not tested it as a waste. We recommend that you carry out your own tests and evaluations prior to discarding any materials and that any waste is disposed of in accordance with all applicable national, state or provincial, and local regulations

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14. TRANSPORTATION INFORMATION (not meant to be all inclusive)

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult the appropriate regulation(s) for information specific to the shipment to be made.

US Department of Transportation (DOT)

DOT Shipping Name: Resin solution

DOT Hazard Class: 3

DOT UN/NA Number: UN1866

DOT Label(s): Flammable

Liquid Packing Group: III

Transport Canada Transportation of Dangerous Goods (TDG)

Shipping Name and Description: Resin solution, flammable

UN Number: UN1866

Class: 3

Packing Group: III

IATA

Shipping Name and Description: Resin Solution

UN Number: UN1866

Class: 3

Packing Group: III

Subrisk: N/A

Inhalation Packing Group I: No

Additional Shipping Name Requirements

Not applicable.

15. REGULATORY INFORMATION (not meant to be all inclusive)

15.1 UNITED STATES

TSCA [Toxic Substances Control Act]: This product complies with all TSCA inventory requirements.

SARA Section 313: This product contains the following chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Response Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

<u>Component</u>	<u>CAS #</u>	<u>Wt%</u>
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No listed components

SARA Section 313 listed components with a concentration of < 0.1% are not listed above.

SARA Section 311 and 312: *SARA Section 311 and 312 hazard classification(s) for this product are listed below.*

Immediate (acute) health hazard

Delayed (chronic) health hazard

Fire hazard

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15. REGULATORY INFORMATION (not meant to be all inclusive), continued

15.1 SARA Section 302 and 304: *This product contains the following Extremely Hazardous Substances (EHS) subject to the emergency planning and release reporting requirements of Sections 302 and 304 of the Emergency Planning and Community Response Act of 1986 and of 40 CFR 355:*

No listed chemicals

CERCLA Information: Releases to air, land, or water which exceed the reportable quantity must be reported to the National Response Center (800-424-8802).

This product contains the following chemical(s) subject to CERCLA reporting requirements:

<u>Component</u>	<u>CAS #</u>	<u>RQ (lbs)</u>	<u>Wt%</u>
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No listed components

CALIFORNIA PROP - 65: *This product contains the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm:*

<u>Component</u>	<u>CAS #</u>	<u>Amount</u>
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No listed components

Additional Right-To-Know Composition Information: *This product contains the following ingredients which appear on other hazardous substance or ingredient disclosure lists.*

<u>Component</u>	<u>CAS #</u>	<u>Wt %</u>	<u>Lists</u>
Hydrotreated Petroleum Distillates	64742-89-8	32.8	CN, MA1, NJ1, NJ2 (F3), PA1

CN=Canadian Ingredient Disclosure List MA1=Massachusetts Hazardous Substances List MA2=Massachusetts Extraordinary Hazardous Substances List NJ1=New Jersey Workplace Hazardous Substances List NJ2=New Jersey Special Health Hazards List (NJ2 Category) NL=Not listed, Concentration Based Disclosure PA1=Pennsylvania Hazardous Substances List PA2=Pennsylvania Special Hazardous Substances List

15.2 CANADA

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Domestic Substances List (DSL) Status: All components of this product are included on the Canadian DSL or NDSL lists.

15.3 EUROPEAN UNION

This safety datasheet has been prepared according to the requirements of Regulation (EC) No. 1907/2006 and 1272/2008. All solvent ingredients are listed on the REACH registry and the resin ingredients are pre-registered as per the requirements for polymers.

This product is a mixture of solvents and resins. Although it has not been tested as a mixture, the physical, acute, and chronic hazards are believed to be those of the solvent constituents, unless described otherwise in the procedure used to derive the classification. The published information for these constituents has been included in Section 3, Section 11, and Section 12. The resin is currently being evaluated in accordance with the established timelines and applicable data will be included when available.

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15. REGULATORY INFORMATION (not meant to be all inclusive), continued

15.4 EVALUATION OF HAZARDS

Procedure used to derive the classification:

The known data for the for the hazardous constituents listed in Section 3 was evaluated to classify the mixture in accordance with the methods in 29 CFR 1910.1200, Appendices A and B and CLP Annex I, Part 3 and Part 4.

Based on the application of the bridging principles in Appendix A to 29 CFR 1910.1200 A.10.3.3.1 and Annex 1 of CLP1272/2008 section 3.10.3.3.1.1, the product was classified as “Aspiration Toxicity, Category 1” because it contains greater than 10% of a substance classified in Category 1 and the kinematic viscosity of the product at 40°C is less than 20.5 mm²/s.

Based on the application of the bridging principles in Appendix A to 29 CFR 1910.1200 A.2.4 and Annex 1 of CLP1272/2008 section 3.2.3.2, the product was classified as “Skin Irritation, Category 2” because it contains greater than 10% of Category 2 constituents.

Based on the application of the bridging principles in Appendix A to 29 CFR 1910.1200 A.8.3.4.5 and Annex 1 of CLP1272/2008 section 3.8.3.4.5, the product was classified as causing specific target organ toxicity single exposure (category 3) of narcotic effects such as drowsiness or dizziness associated with inhalation although it contains 18.8% of category 3 constituents because in the preparer’s judgment this risk is reasonably anticipated to be present at this lower level. The product was also classified as causing specific target organ toxicity single exposure (category 3) of causing respiratory irritation because it contains 32.0% of category 3 constituents.

Based on the application of the bridging principles in Annex 1 of CLP1272/2008 section 4.1.3.4 and Table 4.1.2, the product was classified as a chronic (long term) environmental hazard category 2 because it contains greater than 25% of a weighted combination of (M x 10 x Chronic Category 1) + Chronic Category 2 constituents.

16. OTHER INFORMATION

Additional Hazard Classifications:

HMIS CLASSIFICATION

Health hazard	3
Flammability	2
Physical hazard	0
Protective equipment	G

NFPA RATING

Health hazard	3
Fire	2
Reactivity hazard	0

Date Issued: 11/12/2015

Supersedes: 07/21/2009

Disclaimer: To the best of our knowledge the information contained herein is accurate. However no liability is assumed for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein we cannot guarantee that these are the only hazards that exist.