

LexJet Corporation

Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. When used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sunset Gloss Coating
PRODUCT CODE: SGC
MANUFACTURER: LexJet Corporation
ADDRESS: 1605 Main Street, Suite 400 Sarasota, FL 34236
TEL: 800-453-9538
FAX: 941-330-1220
EMAIL: sales@lexjet.com

Issue Date: 9/09/2014
Product Use: Liquid laminate

SECTION 2: INGREDIENTS

CHEMICAL CHARACTERIZATION : Digital ink based on water

HAZARDOUS INGREDIENTS

Mixture of alpha-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omegahydroxypoly(oxyethylene) and alpha-3-(3-(2h-benzotriazol-2-yl)- 5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Concentration	>=	0,5	<	1	%
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Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Concentration	>=	0,5	<	1	%
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Triethylamine

CAS No. 121-44-8
Concentration >= 0,5 < 1 %

2-(2-Butoxyethoxy)ethanol

CAS No. 112-34-5
Concentration >= 1 < 2,5 %

SECTION 3: HAZARDS IDENTIFICATION**3.1 EMERGENCY OVERVIEW**

Appearance: Colored liquid.

Immediate health, physical, and environmental hazards: May cause skin sensitization. Chronic exposure may cause liver and kidney damage. May cause respiratory tract irritation. May cause skin irritation. May cause eye irritation. May cause digestive tract irritation. May be harmful if swallowed. (Based on components). Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3.2 POTENTIAL HEALTH EFFECTS**Relevant routes of exposure:**

Eye contact, skin contact, inhalation, ingestion.

Eye Contact:

May cause eye irritation.

Skin Contact:

May cause skin sensitization.

Inhalation:

May cause respiratory tract irritation.

Ingestion:

Burning sensation in the throat and chest. May cause irritation to the gastrointestinal tract. Symptoms may include abdominal pain, vomiting and diarrhea. May cause headache. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

Chronic Exposure:

May cause kidney and liver injury.

SECTION 4: FIRST AID MEASURES**4.1 FIRST AID PROCEDURES**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to unconscious person. If unconscious place in a recovery position and seek medical advice.

Eye Contact:

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If applicable, remove contact lens, irrigate copiously with clean, fresh water, holding eyelids apart for at least 10 minutes and seek immediate medical advice.

Skin Contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Inhalation:

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

If Swallowed:

If accidentally swallowed rinse the mouth with plenty of water (if conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommendation: Use alcohol resistant foam, CO₂, powders, water spray/mist, not be used for safety reasons: water jet.

5.2 PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In event of fire the following can be released: carbon dioxide (CO₂); carbon monoxide (CO); dense black smoke and nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSON PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid breathing vapors. Refer to protective measures listed in Sections 7 & 8.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

Clean preferably with a detergent - avoid use of solvents.

REFERENCE TO OTHER SECTIONS

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid skin and eye contact. Avoid inhalation of vapor and spray mist. Smoking, eating and drinking shall be prohibited in application area. For person protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

7.2 STORAGE

Store in accordance with national regulation. Store away from oxidizing agents, from strongly alkaline and strongly acid materials. Store between 59°F and 86°F in a dry, well ventilated place. Keep container tightly closed. No smoking. Prevent unauthorized access. Containers which are open must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE CONTROLS

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the permissible exposure limits, suitable respiratory protection must be worn. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Exposure Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the permissible exposure limits, suitable respiratory protection must be worn. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Ingredients with occupational exposure limits to be monitored Mixture of alpha-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omegahydroxypoly(oxyethylene) and alpha-3-(3-(2h-benzotriazol-2-yl)- 5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

OSHA PEL (TWA) 8h:	Inhalable		
Value		1	mg/m ³

Triethylamine

OSHA PEL (TWA):			
Value	25 ppm	100	mg/m ³

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

OSHA PEL (TWA) 8h:	Inhalable		
Value		1	mg/m ³

8.2.2 Eye/Face Protection:

Use safety eyewear designed to protect against splash of liquids. Maintain eye wash fountain and quick-drench facilities in work area.

8.2.3 Skin Protection:

Personal should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact. Use re-greasing skin cream.

8.2.4 Respiratory Protection:

Breathing protection equipment required in inadequately ventilated places and during spraying. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

8.2.5 Hand Protection:

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Form:	Liquid
Color:	Milky white
Odor:	Mild
Odor threshold	
Remarks	No data available
Melting point	
Remarks	Not determined
Freezing point	
Remarks	Remarks not determined
Boiling point	
Value	212 °F
Method	Value taken from the literature
Flash point	
Remarks	Not applicable
Evaporation rate (ether = 1) :	
Remarks	Not determined
Flammability	
Remarks	Not applicable
Explosion limits	
Remarks	Not determined
Vapour pressure	
Remarks	Not determined

Vapour density

Remarks Not determined

Density

Remarks Not determined

Solubility in water

Remarks Miscible

Octanol/water partition coefficient (log Pow)

Remarks Not applicable

Viscosity

Remarks Not determined

Explosive properties

Evaluation No

Oxidising properties

Evaluation None known

VOC content

VOC (EU) 6,62 %

Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: STABILITY AND REACTIVITY**Stability:** stable under recommended storage and handling conditions (see section 7).**Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

Hazardous Decomposition or By-Products (see section 5)

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION**Information on hazardous ingredients**

Mixture of alpha-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omegahydroxypoly(oxyethylene) and alpha-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2h-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

LD 50 oral rat: >2,000 mg/kg

LD 50 dermal rabbit: > 2,000 mg/kg

LC50 inhalation/rat: >5,800 mg/m³

Skin irritation: Not an irritant. (OECD 404)

Skin sensitization: (Guinea pig) Maximization text: Sensitizer(70% sensitization) (OECD 406)

Carcinogenicity: not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

LD 50 oral rat: >2,000 mg/kg

LD 50 dermal rabbit: > 2,000 mg/kg

Skin irritation: Minimal irritant

Skin sensitization: (Guinea pig) Maximization text: Sensitizer(20/20 positive)

Carcinogenicity: not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

Triethylamine

LD 50 oral rat: 460 mg/kg

LD 50 dermal rabbit: 420 mg/kg

LC 50 (1h) rat: 3,496 ppm

Toxic Effects: Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

Chronic Effects: The substance is toxic to kidneys and liver.

Carcinogenicity: not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

2-(2-Butoxyethoxy)ethanol

LD 50 oral rat: 4,500 mg/kg

LD 50 dermal rabbit: 2,700 mg/kg

Carcinogenicity: not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

General information / ecology

There are no data available on the preparation itself. Do not empty into waters or drains.

SECTION 13: DISPOSAL CONSIDERATIONS

Product

Dispose of or incinerate in accordance with corresponding regulations.

Uncleaned packaging

Dispose of only completely emptied containers!

Local Legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14: TRANSPORTATION INFORMATION

Land transport USDOT

Remarks Non-dangerous goods

Marine transport IMDG

Remarks The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

Remarks

The product does not constitute a hazardous substance in air transport.

SECTION 15: REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

United States Federal Regulations**US. Toxic Substances Control Act**

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

OSHA Hazcom Standard Rating:

Triethylamine: Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200)

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

Warning! This product may contain trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity – not added as a part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

Triethylamine can be found on the following state lists: Massachusetts

2-(2-Butoxyethoxy)ethanol can be found on the following state lists: Pennsylvania (listed as Glycol ethers).

SECTION 16: OTHER INFORMATION**HMIS® rating information**

This information is intended solely for the use of individuals trained in the HMIS® system.

HEALTH: 1

FLAMMABILITY: 1

Physical Hazard: 0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe * = Chronic Health Hazard