SPARTACOTE™ LUX Additive

Safety Data Sheet

According to Mexico NOM-018-STPS-2015, Harmonized System for the Identification and Communication of Hazards and Risks from Hazardous Chemical Substances in the Workplace.

Date of Issue: 19/01/2021 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: SPARTACOTE™ LUX Additive

1.2. Intended Use of the Product

Use of the Substance/Mixture: High reflectance additive. For professional use only.l

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

Company
LATICRETE International
1 Laticrete Park, N
Bethany, CT 06524
T (203)-393-0010
www.laticrete.com

Company
LATICRETE Canada ULC
PO Box 129, Emeryville, Ontario, Canada
N0R-1A0
(833)-254-9255

1.4. Emergency Telephone Number

Emergency Number : For Chemical Emergency call ChemTel Inc. day or night:
(800)255-3924 (North America)
(800)-099-0731 (Mexico)
+1 (813)248-0585 (International - collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-MX Classification

Acute Tox. 5 (Dermal)	H313
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

2.2. Label Elements

GHS-MX Labeling

Hazard Pictograms (GHS-MX) :

GHS07 GHS09

Hazardous Ingredients (GHS-MX) : Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-; Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-; Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester; DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester; Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, tetraethyl ester; Zinc oxide (ZnO)

Signal Word (GHS-MX) : Warning

Hazard Statements (GHS-MX) : H313 - May be harmful in contact with skin.
H317 - May cause an allergic skin reaction.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-MX) : P261 - Avoid breathing vapors, mist, or spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P312 - Call a POISON CENTER or doctor 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.
P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

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

2.4. Unknown Acute Toxicity (GHS-MX)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%*	GHS-MX classification
Zinc oxide (ZnO)	Zinc oxide / C.I. 77947 / C.I. Pigment White 4 / Zinc White / CI 77947 / Pigment White 4	(CAS-No.) 1314-13-2	15 - 40	Acute Tox. 5 (Dermal), H313 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester	Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester / Tetraethyl N,N'-(methylenedi-4,1-cyclohexanediyl)bis(aspartate) / Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester / Tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate / Desmophen NH 1420 / Tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate / (2S,2'S)-Tetraethyl 2,2'-{[methylenebis(cyclohexane-4,1-diyl)]bis(azanediyl)}disuccinate	(CAS-No.) 136210-30-5	23 - 29	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, tetraethyl ester	DL-Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, tetraethyl ester / Desmophen VP-LS 2973 / Desmophen NH 1520 / Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, 1,1',4,4'-tetraethyl ester / Bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane / 1,1'-Methylenebis[(3-methylcyclohexyl-4)-2-aminobutanedioic acid], tetraethyl ester / (2S,2'S)-Tetraethyl 2,2'-{[methylenebis(2-methylcyclohexane-4,1-diyl)]bis(azanediyl)}disuccinate / Tetraethyl N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis(aspartate) / Aspartic acid, N,N'-(methylenebis(2-methyl-4,1-cyclohexanediyl))bis-, 1,1',4,4'-tetraethyl ester	(CAS-No.) 136210-32-7	8 - 10	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 1, H410
Fumaric acid, diethyl ester	But-2-enoate, diethyl, (E)- / 2-Butenedioic acid (2E)-, diethyl ester / 2-Butenedioic acid (E)-, diethyl ester / 2-Butenedioic acid, (E)-, diethyl ester / 2-Butenedioic acid, diethyl ester, (E)- / Diethyl fumarate / 2-Butenedioic acid (2E)-, 1,4-diethyl ester / diethyl fumarate	(CAS-No.) 623-91-6	1 - 2	Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	[3-[3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]poly(oxy-1,2-ethanediyl) / A mixture of: .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-.omega.-hydroxypoly(oxyethylene); .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) A mixture of: .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-.omega.-hydroxypoly(oxyethylene); .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) / A mixture of: .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-.omega.-hydroxypoly(oxyethylene); .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) / .alpha.-{3-[3-(2H-Benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]propanoyl}-.omega.-(3-{[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]propanoyl}oxy)poly(oxyethylene)	(CAS-No.) 104810-47-1	0.1 - 0.2	Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	.beta.-[3-(2-H-Benzotriazole-2-yl)-4-hydroxy-5-tert-butylphenyl]-propionic acidpoly(ethylene glycol)300-ester / Polyethylene glycol mono-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)-1-oxopropyl ether / Tinuvin 1130 / PEG-6 SESQUI(BENZOTRIAZOLYL T-BUTYL HYDROXYPHENYLPROPIONATE) / .alpha.-{3-[3-(2H-Benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]propanoyl}-.omega.-hydroxypoly(oxyethylene)	(CAS-No.) 104810-48-2	0.1 - 0.2	Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester / Decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester / Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate / Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate / Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate / PENTAMETHYL PIPERIDINYL SESQUISEBACATE	(CAS-No.) 41556-26-7	0.15 - 0.2	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate / Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester / methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate / Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate / Methyl (1,2,2,6,6-Pentamethyl-4-Piperidyl)sebacate	(CAS-No.) 82919-37-7	0.05 - 0.1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

*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%).

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret in accordance with NOM-018-STPS-2015

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

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).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Immediately call a poison center or doctor/physician.

First-aid Measures After Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing. Immediately rinse with water for at least 15 minutes. Immediately call a poison center or doctor/physician.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Personal Protection in First Aid: Use appropriate personal protective equipment (PPE).

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Skin sensitization. May be harmful in contact with skin.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use. If heated to the point of fume generation zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic.

4.3. 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

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO_2), alcohol-resistant foam, or dry chemical.

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

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Zinc oxides may react violently with chlorinated rubber.

5.3. Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

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

Hazardous Combustion Products: Carbon oxides (CO, CO_2). Nitrogen oxides. Ammonia. Oxides of zinc.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: 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. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Zinc will vaporize before steel will melt, causing zinc oxides to form. Breathing zinc oxide vapors will cause flu-like symptoms. Symptoms usually begin several hours after exposure and can include headache, fever, chills, muscle aches, nausea, vomiting, fatigue. High level of zinc oxide exposure may cause a metallic or sweet taste, throat dryness and irritation, and coughing at the time of exposure.

Precautions for Safe Handling: Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Handle empty containers with care because they may still present a hazard.

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

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

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

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Zinc oxides may react violently with chlorinated rubber. Alkaline substances. Chlorinated solvents.

7.3. Specific End Use(s)

High reflectance additive. For professional use only.l

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 (TLVs), AIHA (WEELs) and Mexico: OEL TWAs (LMPE-PPTs), STELs (LMPE-CTs), Ceilings (LMPE-Pico), and BEIs (IBE).

Zinc oxide (ZnO) (1314-13-2)		
Mexico	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Mexico	OEL STEL (mg/m³)	10 mg/m³ (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH STEL (mg/m³)	10 mg/m³ (respirable particulate matter)

8.2. Exposure Controls

Appropriate Engineering Controls : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment : Gloves. Protective clothing. Protective goggles.

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 : Liquid

Appearance : Opaque white

Molecular Weight : No data available

Odor : Slight

Odor Threshold : No data available

pH : 8.1

Evaporation Rate : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : No data available

Flash Point : No data available

Auto-ignition Temperature : No data available

Decomposition Temperature : No data available

Flammability (solid, gas) : Not applicable

Vapor Pressure : No data available

Relative Vapor Density at 20°C : No data available

Relative Density : No data available

Specific Gravity : 0

Density : 17.1 lb/gal

Solubility : Water: None

Partition Coefficient: N-Octanol/Water : No data available

Viscosity : 9800 cP

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Zinc oxides may react violently with chlorinated rubber.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Zinc oxides may react violently with chlorinated rubber. Alkaline substances. Chlorinated solvents.

10.6. Hazardous Decomposition Products: Decomposes slowly under the influence of air and light.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified (Based on available data, the classification criteria are not met)

Acute Toxicity (Dermal): May be harmful in contact with skin.

Acute Toxicity (Inhalation): Not classified (Based on available data, the classification criteria are not met)

SPARTACOTE™ LUX Additive	
ATE (Dermal)	3,242.04 mg/kg body weight

Zinc oxide (ZnO) (1314-13-2)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
ATE (Dermal)	2,500.00 mg/kg body weight

DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester (136210-30-5)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
ATE (Oral)	2,500.00 mg/kg body weight
ATE (Dermal)	2,500.00 mg/kg body weight

Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, tetraethyl ester (136210-32-7)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 4.224 mg/l/4h
ATE (Oral)	2,500.00 mg/kg body weight
ATE (Dermal)	2,500.00 mg/kg body weight
ATE (Dust/Mist)	1.50 mg/l/4h

Fumaric acid, diethyl ester (623-91-6)	
LD50 Oral Rat	1780 mg/kg

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 Oral Rat	2615 mg/kg

Skin Corrosion/Irritation: Not classified (Based on available data, the classification criteria are not met)

pH: 8.1

Serious Eye Damage/Irritation: Not classified (Based on available data, the classification criteria are not met)

pH: 8.1

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)

Reproductive Toxicity: Not classified (Based on available data, the classification criteria are not met)

Specific Target Organ Toxicity (Single Exposure): Not classified (Based on available data, the classification criteria are not met)

Specific Target Organ Toxicity (Repeated Exposure): Not classified (Based on available data, the classification criteria are not met)

Aspiration Hazard: Not classified (Based on available data, the classification criteria are not met)

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use. If heated to the point of fume generation zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Very toxic to aquatic life with long lasting effects.

Zinc oxide (ZnO) (1314-13-2)	
LC50 Fish 1	970 µg/l (780 ug Zn/L; Exposure time: 96 h - Species: Pimephales promelas)
LC50 Fish 2	1.793 mg/l (Exposure time: 96 h - Species: Zebrafish)
NOEC Chronic Fish	0.026 mg/l (Species: Jordanella floridae)

DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester (136210-30-5)	
EC50 Daphnia 1	≥ 5 mg/l
NOEC Chronic Fish	> 0.12 mg/l

Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, tetraethyl ester (136210-32-7)	
NOEC Chronic Crustacea	0.013 mg/l

Fumaric acid, diethyl ester (623-91-6)	
LC50 Fish 1	2.4 mg/l
ErC50 (Algae)	1.1 mg/l

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LC50 Fish 1	0.97 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and Degradability

SPARTACOTE™ LUX Additive	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

SPARTACOTE™ LUX Additive	
Bioaccumulative Potential	Not established.

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Log POW	0.37 (at 25 °C)

12.4. Mobility in Soil

No additional information available

12.5. 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.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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.

14.1. In accordance with NOM/SCT

Proper Shipping Name : SUBSTANCIA LIQUIDA POTENCIALMENTE PELIGROSAS PARA EL MEDIO AMBIENTE, N.E.P.

Hazard Class : 9

Identification Number : 3082

Label Codes : 9

Packing Group : III

Marine pollutant : Marine pollutant

14.2. In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide; DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester)

Hazard Class : 9

Identification Number : UN3082

Label Codes : 9

Packing Group : III

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Marine pollutant : Marine pollutant

14.3. In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide; DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester)

Hazard Class : 9

Identification Number : UN3082

Label Codes : 9

Packing Group : III

ERG Code (IATA) : 9L

14.4 Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not determined

SECTION 15: REGULATORY INFORMATION

15.1. International Regulatory Lists

Zinc oxide (ZnO) (1314-13-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester (136210-30-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on ELINCS (European List of Notified Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Aspartic acid, N,N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-, tetraethyl ester (136210-32-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on ELINCS (European List of Notified Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Fumaric acid, diethyl ester (623-91-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian NDSL (Non-Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester (82919-37-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- (104810-48-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- (104810-47-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.2. International Agreements No additional information available

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

Date of Preparation or Latest Revision : 19/01/2021

Data Sources : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other Information : This document has been prepared in accordance with the SDS requirements of Mexico NOM-018-STPS-2015, Harmonized System for the Identification and Communication of Hazards and Risks from Hazardous Chemical Substances in the Workplace. The information is considered correct but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Acute Tox. 5 (Dermal)	Acute toxicity (dermal) Category 5
Acute Tox. 5 (Oral)	Acute toxicity (oral) Category 5
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Sens. 1	Skin sensitization, Category 1
H227	Combustible liquid
H302	Harmful if swallowed
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Indication of Changes: No additional information available

Abbreviations and Acronyms:

ACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MARPOL – International Convention for the Prevention of Pollution from Ships
MFAG-No - Medical First Aid Guide for Use in Accidents Involving Dangerous Goods

COD – Chemical Oxygen Demand
EC50 - Median Effective Concentration
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
ErC50 - EC50 in Terms of Reduction Growth Rate
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
GWP – Global Warming Potential
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG - International Maritime Dangerous Goods
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
MX - Mexico
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NOM/SCT – Secretaria de Comunicaciones y Transportes
NTP – National Toxicology Program
OEL - Occupational Exposure Limits
pH – Potential Hydrogen
SADT - Self Accelerating Decomposition Temperature
SARA - Superfund Amendments and Reauthorization Act
SARA 302 - Section 302, 40 CFR Part 355
SARA 313 - Section 313, 40 CFR Part 372
SDS - Safety Data Sheet
STEL - Short Term Exposure Limit
ThOD – Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPQ - Threshold Planning Quantity
TWA - Time Weighted Average
UN – United Nations
VOC – Volatile Organic Compounds
WEEL - Workplace Environmental Exposure Levels

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.

MX GHS SDS