SAFETY DATA SHEET EMERALD PLUS ANTI-SPALL

Issue Date: July 1, 2014 Revision Date Version 2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Emerald Plus Anti-Spall

Other Means of Identification: SDS #: EPAS007.5

Recommended Use: Curing and Sealing Compound for all Concrete, Stamped and exposed aggregate concrete
Restrictions on Use: No Data
Supplier of the Safety Data Sheet including Address:

Stone Mountain Concrete Solutions, LLC
2700 Village Green Drive
Conneaut, OH 44030

Emergency Phone Number: 216 -218-1691

Company Phone Number: 216 -218-1691

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Flammable Liquid, May cause respiratory irritation, May cause drowsiness or dizziness, May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Target Organs: Eyes, Skin, Respiratory System, Central Nervous System

GHS Classification
Flammable Liquids Category 3
Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard Category 2
Specific target organ toxicity – single exposure Category 3
Aspiration Hazard Category 1
Acute Toxicity, Inhalation Category 4
Label Elements, including precautionary statements

Pictograms: Pictograms:

Signal Word: Danger

Hazard Statements:

H226 Flammable Liquid and Vapor
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H304 May be fatal if swallowed and enters airways
H411 Toxic to aquatic life with long lasting effects

Precautionary Statement(s) Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Additional Label Hazard Statement: CAUTION: To avoid spontaneous combustion during temporary storage, soak soiled rags, steel wool and waste immediately after use in a water filled, closed metal container.

Response:
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P370+P378 In case of fire use, dry chemical, alcohol resistant foam, halon or carbon dioxide to extinguish.
P391 Collect spillage Storage:
P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405 Store Locked Up

Disposal: P501 Dispose of contents/container in accordance with local/regional/national regulations.
Hazards not otherwise classified: Repeated exposure may cause skin dryness and cracking.
May cause eye irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		
Dimethyl Carbonate	CAS# 616-38-6	35-60%
Solvent Naphtha (Petroleum), Light Aromatic	CAS# 64742-95-6	25-40%
Acrylic Co-Polymer - Non-Hazardous	CAS# Proprietary	25-30%
Linseed Oil	CAS# 8001-26-1	Proprietary
(9Z)-Octadec-9-enoic acid,	CAS# 112-80-1	Proprietary
(9Z,12Z)-9,12-Octadecadienoic acid	CAS# 60-33-3	Proprietary
Octadecanoic acid	CAS# 57-11-4	Proprietary
Hexadecanoic acid	CAS# 57-10-3	Proprietary
9,12,15-Octadecatrienoic acid	CAS# 463-40-1	Proprietary
Zirconium 2-Ethylhexanoate	CAS# 22464-99-9	Proprietary
Hexanoic acid 2-ethyl-, cobalt(2+) salt	CAS# 136-52-7	<0.1%
Hexanoic acid, 2-ethyl-, manganese salt	CAS# 15956-58-8	<0.1%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures General

Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Eye Contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Ingestion:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Skin Contact:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice or attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam, dry chemical, halon or carbon dioxide

Specific Hazards Arising from the Chemical

In a fire or if heated a pressure increase will occur and the container may burst.

Hazardous Combustion Products

Carbon dioxides & Carbon monoxide

Protective Equipment and Precautions for Firefighters
Wear self-contained breathing apparatus and full protective gear for firefighting.
Further Information
Use water spray to cool unopened containers. See Section 7 for safe handling and storage

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways. Additional Label Hazard Statement: CAUTION: To avoid spontaneous combustion during temporary storage, soak soiled rags, steel wool and waste immediately after use in a water filled, closed metal container.

Methods and Material for Containment and Cleaning Up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Conditions for Safe Storage, Including any Incompatibilities
Keep container tightly closed in a dry, cool and well ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage. Additional Label Hazard Statement: CAUTION: To avoid spontaneous combustion during temporary storage, soak soiled rags, steel wool and waste immediately after use in a water filled, closed metal container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Component Exposure Limits
Petroleum Hydrocarbon, CAS# 64742-94-5: OSHA 400 ppm 8 hr. TWA
Toluene, CAS# 108-88-3: OSHA TWA 200 ppm, Ceiling 300 ppm, Max conc. 500 ppm
Appropriate Engineering Controls
Local Ventilation: Recommended
General Ventilation: Recommended
Individual Protection Measures, such as Personal Protective Equipment
Eye/Face Protection: Use proper protection – Safety Glasses as a minimum

Skin and Body Protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.
Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.
General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties
Physical State: Liquid
Appearance: Clear Light amber
Odor: Solvent Odor
Color: Colourless to light yellow
Odor threshold: No Data
Property Value Remarks – Method
Vapor Pressure Not Available
Vapor Density Not Available
Relative Density Not Available pH:
Not Relevant
Melting/Freezing Point Not Relevant
Solubility Not Available
Evaporation Rate Not Available
Flash Point 63Degree F) Tag Closed Cup
Flammability Limits Lower Limit: 2.0% Upper Limit: 13.0%
Flammability (Solid, gas) Not Relevant
Auto Ignition Temperature Not Available
Initial Boiling Point/Boiling Range 56 Degrees C
Decomposition Temperature Not Available
Viscosity Not Available
Specific Gravity 1 at 25 Degrees C 8.3 Lbs./gal.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat, Flames and Sparks

Incompatible Materials: Keep away from strong oxidizing agents, strong alkalis and strong acids.
Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions, Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion Symptoms of Exposure:
May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.
Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure Eye, Skin & Respiratory System Irritation and Central nervous system depression.
Repeated Exposure may cause skin dryness and cracking.
Aspiration Hazard: May cause chemical pneumonitis (aspiration of liquid) if swallowed and enters airways.
Carcinogenicity:
Petroleum Hydrocarbon (CAS#64742-94-5) Contains an ingredient, Naphthalene, which is classified by IARC as "possibly carcinogenic to humans" (Group 2B) and by NTP as a SUS, "Reasonably anticipated to be a human carcinogen".
Petroleum Hydrocarbon (CAS#64742-94-5) Contains an ingredient, Cumene which is classified by IARC as "possibly carcinogenic to humans" (Group 2B).
Reproductive Toxicity: In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals during pregnancy exposed to Toluene.
.
Teratogenicity: Toluene has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.
Numerical Measures of Toxicity
Petroleum Hydrocarbon CAS#64742-94-5: LD50 Oral Rat: >5,000 mg/kg; LC50 Inhalation Rat: >5.2 mg/l 4 hrs.; LD50 Dermal Rabbit: >2,000 mg/kg.
Dimethyl Carbonate: LD50 Oral Rat: 13,000 mg/kg; LD50 Dermal Rabbit >5,000 mg/kg.
Toluene: LC50 Inhalation Rat: >15.07 mg/l 4 hrs.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Toxicity to Fish, Component Petroleum Hydrocarbon CAS#64742-94-5: 2-5 mg/l Exposure Time 96 hrs. Species: Oncorhynchus mykiss (rainbow trout).
Toxicity to daphnia and other aquatic invertebrates, Component Petroleum Hydrocarbon CAS#64742-94-5: 0.95 mg/l Exposure Time 48 hrs. Species: daphnia magna (water Flea).
Toxicity to algae, Component Petroleum Hydrocarbon CAS#64742-94-5: EL50: 1-3 mg/l Exposure Time 1 day Species: Pseudokirchneriella subcapitata (green algae).
Persistence and Degradability: No Data Available
Bioaccumulation: No Data Available

Mobility: This material has a low solubility in water. The solvent portion has high volatility (tendency to move from water to air) and will partition rapidly to the air. Therefore chronic aquatic toxicity is not expected, however a significant spill may cause long-term adverse effects in the aquatic environment. Other Adverse Effects: No Data Available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT

UN1263, PAINT, 3, II

IATA

UN1263, PAINT, 3, II

IMDG

UN1263, PAINT, 3, II

Marine Pollutant: Yes

15. REGULATORY INFORMATION

International Inventories

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

US Federal Regulations

SARA 302: None

SARA 311/312 Hazard Categories: Acute: Yes, Fire: Yes, Chronic: Yes (40 CFR 370) SARA 313 Hazard Categories:

CAS Number Component Name Wt. %

91-20-3 Naphthalene <1.3%

98-82-8 Cumene <0.2%

95-63-6 1,2,4-Trimethylbenzene <0.2%

108-88-3 Toluene <0.2%

CWA (Clean Water Act): This product contains petroleum hydrocarbons and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802. Supplemental State Compliance Information California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. Naphthalene – Carcinogen

Cumene - Carcinogen

Toluene – Developmental Toxin States
Right To Know:
Petroleum Hydrocarbon, CAS# 64742-94-5: Pennsylvania, New Jersey.
Naphthalene, CAS# 91-20-3: New Jersey, Illinois, Minnesota, Pennsylvania, Rhode Island, New York, Massachusetts.
1,2,4-Trimethylbenzene, CAS# 95-63-6: New Jersey, Illinois, Minnesota, Pennsylvania, Rhode Island. Massachusetts.
Cumene, CAS# 98-82-8: New Jersey, Pennsylvania.
Toluene, 108-88-3: New Jersey, Pennsylvania.
Linseed Oil, CAS# 8001-26-1: Minnesota, Pennsylvania, Rhode Island, Massachusetts.

U.S. EPA Label Information: No Data
Canada
WHMIS Classification: Class D2B & B2 (Toxic & Flammable)

Symbol: Stylized T & Flammable 

16. OTHER INFORMATION

HMIS Classification:
Health hazard: 2*
Flammability: 3
Physical Hazards: 0

NFPA Rating:
Health hazard: 2
Fire: 3
Reactivity Hazard: 0
Issuance Date: 8/11/2014
Revision Date:
Revision Note:
Date of Previous Version
Disclaimer
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