

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

*** Section 1 - Identification ***

Product Identifier

EcoAddz

Restrictions on Use

Not Available.

Product Code: Prefix 06

Product Use: For blending with asphalt. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms: Not applicable.

Manufacturer Information

Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 400
Richardson, TX 75080
www.safety-kleen.com

Phone: 1-800-669-5740
www.safety-kleen.com

Emergency # 1-800-468-1760

Issue Date

March 24, 2015

Supersedes Issue Date

March 19, 2014

Original Issue Date

October 31, 1988

*** Section 2 - Hazard(s) Identification ***

Classification in Accordance with 29 CFR 1910.1200.

COOLED PRODUCT

Not classified.

HOT PRODUCT

Flammable liquid, Category 3

Acute Toxicity (Inhalation), Category 2

GHS LABEL ELEMENTS

COOLED PRODUCT

No Symbol, Signal Word, Hazard Statement, or Prevention or Response Measures needed according to classification criteria.

HOT PRODUCT

Symbol(s)



Signal Word

DANGER!

Hazard Statement(s)

Flammable liquid and vapor

Fatal if inhaled

Causes severe skin burns and eye damage.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

Precautionary Statement(s)

Prevention

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear respiratory protection.

Response

In case of fire, use media appropriate for extinction. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Specific treatment is urgent, see first aid section of Safety Data Sheet. IF IN EYES: Flush with water for at least 15 minutes and seek medical attention immediately. DO NOT attempt to remove cooled product from eye as it can cause tissue damage. IF ON SKIN (or hair): For burns from contact with hot material, do NOT remove solidified material as this might cause skin tearing. Cover area with sterile, dry dressing. Immediately get medical attention.

Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

May cause thermal burns from heated material. Inhaling hydrogen sulfide released from hot products in enclosed areas may cause unconsciousness, convulsions, suffocation, coma, and death.

*** Section 3 - Composition / Information on Ingredients ***

| CAS | Component | Percent |
|-------------|----------------------------------|----------|
| 129893-17-0 | Lubricating oils, used, residues | 99.9-100 |
| 7783-06-4 | Dihydrogen monosulfide | <0.1 |

*** Section 4 - First Aid Measures ***

Description of Necessary Measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If breathing is difficult, oxygen should be administered by qualified personnel.

Skin

For burns from contact with hot material, do NOT remove solidified material as this might cause skin tearing. Cover area with sterile, dry dressing. Immediately get medical attention.

If contact is with cooled material, remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately. Do not attempt to removed cooled product from eye as it can cause tissue damage.

Ingestion

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

Most Important Symptoms/Effects

Acute

For hot product: Fatal if inhaled, thermal burns.

Cooled product may irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

Delayed

No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

For inhalation, consider oxygen. Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

* * * Section 5 - Fire-Fighting Measures * * *

Suitable Extinguishing Media

Carbon dioxide, dry chemical, or water fog. Water spray or foam may cause frothing.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical

Hot product is a vapor explosion hazard indoors, outdoors, or in sewers. Vapors or gases may ignite at distant ignition sources and flash back. Most vapors are heavier than air and will spread along ground and collect in low or confined areas (drains, basements, tanks). Runoff may create fire or explosion hazard. Containers may rupture or explode if exposed to heat. Empty containers may retain product residue including flammable/explosive vapors. Product is not sensitive to mechanical impact or static discharge. For cooled product: Product may burn, but does not ignite readily.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Burning may produce hydrogen sulfide, sulfur oxides, carbon monoxide, and unidentified organic compounds.

Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep storage containers cool with water spray.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Hot product: contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Cooled product: collect and dispose in proper container.

Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

*** Section 7 - Handling and Storage ***

Precautions for Safe Handling

This product is normally handled at high temperatures. Vapors from hot material may be explosive: keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Sense of smell becomes rapidly fatigued and cannot be relied upon to warn of the continuous presence of hydrogen sulfide. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke when using this product. Do not put in mouth. Wear protective gloves and eye/face protection.

Conditions for Safe Storage, Including Any Incompatibilities

Keep away from water when loading and unloading. Use dry container to avoid violent eruptions and splattering of hot product. Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Store locked up.

Incompatibilities

Avoid acids, alkalis, oxidizing materials, halogens, and reactive metals.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Dihydrogen monosulfide (7783-06-4)

ACGIH: 1 ppm TWA

5 ppm STEL

OSHA Final: 20 ppm Ceiling

OSHA Vacated: 10 ppm TWA; 14 mg/m³ TWA

15 ppm STEL; 21 mg/m³ STEL

NIOSH: 10 ppm Ceiling (10 min); 15 mg/m³ Ceiling (10 min)

Appropriate Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, lab coat or apron.

Eyes/Face Protection

Eye protection: Safety goggles should be worn at a minimum. Additional protection such as face shields or respirators may be needed depending upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

Skin Protection

Where contact with hot product is likely, wear combination temperature and chemical protective gloves. For contact with cooled product, wear appropriate product resistant gloves.

When products are heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

Respiratory Protection

Sense of smell becomes rapidly fatigued and cannot be relied upon to warn of the continuous presence of hydrogen sulfide. Use NIOSH air-certified, air-supplied respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of hydrogen sulfide may exceed applicable exposure limits. Otherwise, use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

*** Section 9 - Physical & Chemical Properties ***

| | | | |
|-----------------------------------|---|----------------------------|-------------------------------------|
| Appearance/Odor : | For hot products: Viscous, semi-solid, black, asphalt odor. For cooled products: Solid, black, asphalt odor. | Odor Threshold: | 0.1 ppm (based on hydrogen sulfide) |
| Boiling Point: | 800°F (426°C) (minimum) | Melting Point: | Not available |
| Solubility (H2O): | Insoluble. | Specific Gravity: | 0.96 (water = 1) (approximately) |
| Density: | 8 LB/US gal (960 g/l) (approximately) | Octanol/H2O Coeff.: | Not available |
| Evaporation Rate: | Not available. | Molecular Weight: | Not available. |
| Auto Ignition Temperature: | 905°F (485°C) (based on similar material) | LFL: | Not available |
| Flash Point: | 500°F (260°C) (minimum) Cleveland Open Cup | UFL: | Not available |
| Viscosity: | Not available | Vapor Pressure: | 0.2 mmHg @ 175°F (79°C) |
| Vapor Density: | Not available. | | |

Other Property Information

No additional information is available.

*** Section 10 - Stability & Reactivity ***

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Conditions To Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Avoid acids, alkalis, oxidizing agents, reactive halogens, or reactive metals., Avoid volatile solvents because contact may cause vapors from hot products to ignite., Avoid water because allowing hot product to contact water can cause violent eruptions, splatter hot material, or ignite flammable materials.

Hazardous Decomposition Products

Decomposition and combustion materials may be toxic., Burning may produce hydrogen sulfide, oxides of sulfur, oxides of carbon, and unidentified organic compounds.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Dihydrogen monosulfide (7783-06-4)

Inhalation LC50 Rat 0.99 mg/L 1 h

Information on Likely Routes of Exposure

Inhalation

For hot product: High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). Inhaling hydrogen sulfide released from hot products in enclosed areas may cause unconsciousness, convulsions, suffocation, coma, and death. For cooled product: Mechanical irritation may occur.

Ingestion

May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Aspiration hazard: breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Skin Contact

May cause thermal burns from heated material., For cooled product:, May cause irritation.

Eye Contact

May cause thermal burns from heated material., For cooled product:, May cause irritation.

Immediate Effects

For hot product:, Fatal if inhaled, thermal burns

Cooled product may irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity

For hot product:, thermal burns

Cooled product may irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

Respiratory Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Skin Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Germ Cell Mutagenicity

Based on best current information, there is no known mutagenicity associated with this product.

Teratogenicity

Based on best current information, there is no known teratogenicity associated with this product.

Reproductive Effects

Based on best current information, there is no known reproductive toxicity associated with this product.

Specific Target Organ Effects - Single Exposure

No target organs identified.

Specific Target Organ Effects - Repeated Exposure

No target organs identified.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

*** Section 12 - Ecological Information ***

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic Toxicity

Dihydrogen monosulfide (7783-06-4)

| Duration/Test/Species | Concentration/Conditions | Notes |
|--------------------------------|----------------------------|-------|
| 96 Hr LC50 Lepomis macrochirus | 0.0448 mg/L [flow-through] | |
| 96 Hr LC50 Pimephales promelas | 0.016 mg/L [flow-through] | |

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

*** Section 13 - Disposal Considerations ***

Disposal Methods

Dispose of in accordance with all applicable federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

Product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

*** Section 14 - Transport Information ***

Transportation Regulations

DOT Shipping Name: Elevated temperature liquid, n.o.s. (Asphalt flux)

UN/NA #: UN3257 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): CLASS 9

Additional Information: When product temperature is less than 212 °F (100 °C)

Not regulated.

TDG Shipping Name: Elevated temperature liquid, n.o.s. (Asphalt flux)

UN/NA #: UN3257 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): 9

Additional Info.: When product temperature is less than 212 °F (100 °C)

Not regulated.

*** Section 15 - Regulatory Information ***

VOC (As Regulated)

100 WT%; 8 LB/US gal; 960 g/l (approximately)

Federal Regulations

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does contain "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B:

Dihydrogen monosulfide (7783-06-4) 500 lb TPQ

SARA 311/312 Hazardous Categories

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

This product poses the following health hazard(s) as defined in 40 CFR Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Acute Health: Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

SARA Section 313

Component Analysis

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Dihydrogen monosulfide (7783-06-4) 1.0 % de minimis concentration

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Dihydrogen monosulfide (7783-06-4) 100 lb final RQ; 45.4 kg final RQ

TSCA Inventory

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

| Component | CAS # | TSCA |
|----------------------------------|-------------|------|
| Lubricating oils, used, residues | 129893-17-0 | Yes |
| Dihydrogen monosulfide | 7783-06-4 | Yes |

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | MA | MN | NJ | PA | CA |
|------------------------|-----------|-----|-----|-----|-----|-----|
| Dihydrogen monosulfide | 7783-06-4 | Yes | Yes | Yes | Yes | Yes |

This product may contain detectable amounts of lead CAS 7439-92-1, nickel CAS 7440-02-0, benzo(a)anthracene CAS 56-55-3, benzo(k)fluoranthene CAS 207-08-9, benzo(a)pyrene CAS 50-32-8, benzo(b)fluoranthene CAS 205-99-2, chrysene CAS 218-01-9, dibenz(a,h)anthracene CAS 53-70-3, and indeno(1,2,3-cd)pyrene CAS 193-39-5. WARNING: These chemicals are known to the State of California to cause cancer.

This product may contain detectable amounts of lead CAS 7439-92-1. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

| Component | CAS # | CAN |
|----------------------------------|-------------|-----|
| Lubricating oils, used, residues | 129893-17-0 | DSL |
| Dihydrogen monosulfide | 7783-06-4 | DSL |

Canadian WHMIS Information

Hot Product: Class B2 - Flammable Liquid; D2B – Irritating to eyes and skin.

Safety Data Sheet

Material Name: EcoAddz

SDS ID: 82409

| |
|--|
| *** Section 16 - Other Information *** |
|--|

Revision Information

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplier to the user.

End of Sheet 82409