

sonnegreenas

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Sonneborn, LLC urges the recipient of this Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information of this sheet, (2) furnish a copy to each of your customers for the product and (3) request your customers to inform their employees and customers as well.

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

Identification of the substance or preparation
sonnegreenas

Use of substance/preparation:
Used in asphalt paving mixes as anti-strip agent

Company identification
Sonneborn, LLC
600 Parsippany Road, Suite 100
Parsippany, NJ 07054 USA

Emergency telephone number
Chemtrec (24hrs): 800-424-9300
Sonneborn: 724-756-2210

2. HAZARDS IDENTIFICATION

GHS Classification :Not classified as dangerous under EC/GHS-criteria
Human Health Hazards :None
Physico-chemical and environmental hazards and effects: None

HMIS RATING USA

| | | | |
|-----------|-----------------|---------------|--------|
| Health: 1 | Flammability: 1 | Reactivity: 0 | PPI: - |
|-----------|-----------------|---------------|--------|

3. COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT | % BY WEIGHT | CAS # | HAZARD | DANGER SYMBOL(S) |
|----------------------------------|-------------|-------|--------|------------------|
| Contains No Hazardous Substances | | | | |

4. FIRST AID MEASURES

Swallowing

Do not induce vomiting. Obtain medical attention immediately. This is not a toxic substance.

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Inhalation

No emergency care anticipated. If mineral oil mist is present, see Section 8.

Skin

No emergency care anticipated. Wash skin with soap and water.

Eye contact

Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

5. FIRE-FIGHTING MEASURES

| |
|--|
| Flash Point: >93.4°C (200°F) PMCC, ASTM D93 |
|--|

NFPA CLASSIFICATION USA

| | | | |
|-----------|-----------------|---------------|-----------------------|
| Health: 1 | Flammability: 1 | Reactivity: 0 | Special provisions: - |
|-----------|-----------------|---------------|-----------------------|

Extinguishing media

Suitable: Treat as an oil fire:

- dry chemical
- carbon dioxide (in case of small fires)
- water fog
- foam

Unsuitable: Do not use water jet. Oil will float on water and can spread any fire.

Special fire fighting procedures

Do not direct a solid stream of water or foam into burning material; this may cause spattering and spread the fire. If a rail or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special protective equipment for firefighters

Self-contained breathing apparatus.

Unusual fire and explosion hazards

Following products may be produced during a fire: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment.

Environmental precautions

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank. Waste: avoid washing into watercourses. Use methods consistent with local regulations or incinerate.

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Methods for cleaning up

Dike to contain spill. Absorb on inert material such as sand, earth, vermiculite. After cooling, scrape and/or shovel material. Stop the leak if it can be done without risk. Floor may be slippery; use care to avoid falling.

7. HANDLING AND STORAGE

HANDLING

Do not handle at temperatures $>+40^{\circ}\text{C}$, unless wearing appropriate protective equipment.

Ventilation

General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

STORAGE**Storage requirements**

Keep away from heat, sparks and flame. Do not store at temperatures: $>+40^{\circ}\text{C}$ without proper safety review of storage equipment. Store protected from light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

| COMPONENT | COUNTRY | TYPE/REMARK | VALUE |
|------------------|---------|--|---|
| Mineral Oil Mist | | If used in a way that generates A "mist" observe the limits for Mineral Oil Mist. TWA (mist), ACGIH STEL (mist), ACGIH | 5mg/m ³ 10mg/m ³ |

OCCUPATIONAL EXPOSURE CONTROLS**Respiratory protection**

None expected to be needed. If used in a way that generates a vapor/mist, wear an organic vapor respirator.

Hand protection/protective gloves

Wear oil resistant gloves.

Eye protection

Face shield or chemical splash goggles in case of splashing.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

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Environmental Exposure Controls:

Store in a second containment to catch leakages

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

| | |
|-----------------|---------------|
| Physical State: | Liquid |
| Color: | Brown |
| Odor: | Raw Petroleum |
| Odor Threshold: | N/A |

Important health, safety and environmental information

| | |
|---------------------------------------|---|
| Flammability | No Data |
| Evaporation Rate | No Data |
| Decomposition Temperature | No Data |
| Flash Point: | >93.4°C (200°F) Method: PMCC, ASTM D93 |
| Upper explosion limits: | Not determined |
| Lower explosion limits: | Not determined |
| Vapor Pressure: | <0.1 kPa at 20°C |
| Density: | 0.75 – 0.87 g/cm ³ at 100°C |
| Bulk Density: | Not available |
| Solubility in Water: | Insoluble |
| Solubility in organic solvents: | Soluble |
| Kinematic viscosity: | 5 – 30 mm ² /s at 100°C |
| Boiling Point: | > 230°C |
| PH: | N/A |
| Specific gravity (H ₂ O=1) | <1 |
| Partitioning coefficient | log POW: >6 This product is soluble in oil. |
| Vapor Density: | N/A |
| Percent volatiles | Nil |
| Autoignition Temperature: | No Data |

10. STABILITY AND REACTIVITY

Stability: Stable**Conditions/Materials to avoid:** Extreme temperature and direct sunlight/ultraviolet light and strong oxidizing agents.**Hazardous combustion products**

Burning can produce the following combustion products: Oxides of carbon and Soot

Hazardous polymerization: Will not occur.

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11. TOXICOLOGICAL INFORMATION

GENERAL

No evidence of harmful effects from available information.

12. ECOLOGICAL INFORMATION

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with appropriate Federal, State and local regulations or incinerate.

14. TRANSPORT INFORMATION

ADR/RID/IMDG/ICAO

This product is not regulated by ADR / RID / IMDG / ICAO.

USA – This product is not regulated by DOT, Freight Description Road: 65 Petroleum Oil, N.O.I.B.N.

TDG-CANADA

This product is not regulated by TDG.

15. REGULATORY INFORMATION

EC/GHS classification

According to EC/GHS regulations this product is not classified or labeled

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

| Chemical name | CAS# | New Jersey TS Number |
|---|------------|----------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | 68584-23-6 | |

EPA Hazard Categories (SARA 311, 312): None

WHMIS Classification: This product is not a WHMIS controlled product.

Chemical Inventory

| | |
|-----------------------|--|
| <u>Canada:</u> | The ingredients of this product are on the DSL. |
| <u>Europe:</u> | The ingredients of this product are on the EINECS inventory. |
| <u>United States:</u> | The ingredients of this product are on the TSCA inventory. |
| <u>Australia:</u> | The ingredients of this product are on the AICS inventory. |
| <u>Japan:</u> | The ingredients of this product are on the ENCS inventory. |

16. OTHER INFORMATION

Recommended uses and restrictions

Please consult the product and/or application information bulletins for this product.

Further information, Europe

Where appropriate, use CE approved personal protection equipment.

This Safety Data Sheet conforms to EC Directive 1907/2006 and amendments.

The opinions expressed herein are those of qualified experts within Sonneborn, LLC. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Sonneborn, LLC it is the user's obligation to determine the conditions of safe use of the products.