Material Safety Data Sheet



MSDS# 15-0607

Section 1. Chemical Product and Company Identification

Product name REDICOTE® E-4819

Material Uses : Asphalt Additive. In Case of Emergency

Supplier/ AKZO NOBEL SURFACE CHEMISTRY LLC

Manufacturer 525 West Van Buren Chicago, IL 60607-3823 CANUTEC: 613-996-6666
Medical/Handling: 914-693-6946
Product/Technical: 800-906-9977

800-424-9300

CHEMTREC:

Do not ship to Canada.

Section 2. Composition, Information on Ingredients

Name	CAS#	% by Weight
proprietary Fatty polyamines 1	proprietary	42
proprietary Fatty amines	proprietary	41
proprietary Fatty polyamines 2	proprietary	17

Section 3. Hazards Identification

Physical StateLiquid.ColorAmber.OdorAmmoniacal.

Emergency Overview DANGER!

CAUSES EYE AND SKIN BURNS.

VERY TOXIC TO AQUATIC ORGANISMS. MAY BE HARMFUL IF SWALLOWED.

MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNTS.

Do not get in eyes, on skin or on clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact

of spilled material and runoff with soil and surface waterways.

Possible Carcinogenic

Effects

proprietary Fatty polyamines 1: IARC, NTP, OSHA, ACGIH: Not listed. proprietary Fatty amines: IARC, NTP, OSHA, ACGIH: Not listed.

proprietary Fatty polyamines 2: IARC, NTP, OSHA, ACGIH: Not listed.

Routes of Entry Absorbed through skin. Dermal contact. Eye contact.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of

water for at least 15 minutes. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Get medical attention immediately.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

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Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Medical Conditions Aggravated by Overexposure

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Section 5. Fire Fighting Measures

Flammability of the

Product

May be combustible at high temperature.

Flash Points

Closed cup: >175°C (347°F). (Pensky-Martens.)

Products of Combustion

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

Fire Fighting Media and Instructions

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire)

Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire

Hazards

Avoid heating above 65°C (150°F).

Section 6. Accidental Release Measures

Small Spill and Leak

Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: Use suitable protective equipment (Section 8).

Large Spill and Leak

Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Use suitable protective equipment (Section 8).

Section 7. Handling and Storage

Handling

Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 35 to 50°C (95 to 122°F).

Section 8. Exposure Controls, Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Face shield. **Body** Full suit.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves. **Feet** Boots.

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Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Ingredient Name Exposure Limits United States

proprietary Fatty polyamines 1 Not available.
proprietary Fatty amines Not available.
proprietary Fatty polyamines 2 Not available.

Section 9. Physical and Chemical Properties

Physical StateLiquid.ColorAmber.OdorAmmoniacal.Molecular WeightNot applicable.Molecular FormulaNot applicable.

pH Basic.

Boiling/Condensation 300°C (572°F)

Point

Melting/Freezing Point 29°C (84.2°F)

Cloud Point 40°C
Pour Point 30°C

Density 0.84 g/cm³ (30°C / 86°F)

Vapor Pressure<0.01 kPa (<0.1 mmHg) (at 20°C)</th>Evaporation Rate<1 compared to Butyl acetate.</th>

Solubility Insoluble in cold water.

Dispersion Properties Not available.

Physical Chemical

Comments

Viscosity = 37 mPas (cP) @ 30°C; 20 mPas (cP) @ 40°C; 9 mPas (CP) @ 50°C; 7 mPas (cP) @ 60°C.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility with Various Substances

Reactive with OXIDIZING AGENTS, acids.

Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

Toxicity to Animals **Ingredient Name or Product Test** Result **Route Species** proprietary Fatty polyamines 1 LD50 945 mg/kg Oral Rat proprietary Fatty amines LD50 1950 mg/kg Oral Rat proprietary Fatty polyamines 2 LD50 960 mg/kg Oral Rat

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Special Remarks on proprietary Fatty polyamines 1: Sub-chronic, NOEL (rat) = 670 ppm.

Toxicity to Animals proprietary Fatty amines: INHALATION > 0.033 mg/L 1 hour(s) Rat; highest concentration tested.

Chronic Effects on MUTAGENIC EFFECTS: Classified None. for human [proprietary Fatty amines]. Non-mutagenic for

Humans bacteria and/or yeast. [proprietary Fatty amines].

Special Remarks on Chronic Effects on Chronic Effec

Mouse Lymphoma Assay; based on a similar material.

Acute Effects Skin Corrosive to the skin.

Acute Effects Eyes Corrosive to the eyes.

Section 12. Ecological Information

Ecotoxicity

Humans

Ingredient Name or Product name Species Period Result

proprietary Fatty polyamines 1 Fish (LC50) 96 hour(s) 0.1 to 0.15 mg/l 97 proprietary Fatty amines Minnows based on data for: 96 hour(s) 0.11 mg/l

(similar material) (LC50)
daphnia based on data for: 48 hour(s) 0.011 mg/l
(similar material) (EC50)

Algae. based on data for: 72 hour(s) 0.03 mg/l (similar material) (EC50)

Biodegradability and 62% @ 28 day(s) CBT based on data for: (similar material); 72% @ 42 day(s) CBT based on data for: (similar material); 72% @ 42 day(s) CBT based on data

for: (similar material)

Biodegradable/OECD Readily biodegradable.

Products of Degradation These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO_{2...}).

Section 13. Disposal Considerations

Waste InformationWaste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

Section 14. Transport Information

UN number	Proper shipping name	Class		Label	Additional information
UN2735	Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines)	8	III	CONSTRUCTION	-
UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines)	8	III		Special Provisions Classified in Accordance with UN Recomendations
UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines)	8	III		-
	number UN2735 UN2735	number UN2735 Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines) UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines) UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines)	number UN2735 Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines) UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines) UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines) UN2735 (Fatty acid derived amines) 8	number Group UN2735 Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines) 8 III UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines) 8 III UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived 8 III	number Group UN2735 Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines) 8 III UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines) 8 III UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acid derived amines) 8 III

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IATA-DGR Class		Amines, liquid, corrosive, n.o.s. (Fatty acid derived amines)	-	III	-	

Section 15. Regulatory Information

HCS Classification Corrosive Material

U.S. Federal Regulations TSCA: All intentionally present components are listed on the TSCA inventory.

DSL: All intentionally present components are listed on the DSL. CERCLA: Hazardous substances.: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: REDICOTE® E-4819

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: REDICOTE® E-4819:

Immediate (Acute) Health Hazard

SARA 313 Form R Reporting Requirements

No products were found.

SARA 313 Supplier Notification No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

WHMIS (Canada) Class E: Corrosive liquid.

CEPA DSL: proprietary Fatty polyamines 1; proprietary Fatty amines; proprietary Fatty polyamines

2

European Union Component proprietary Fatty polyamines 1 proprietary proprietary

proprietary Fatty annines proprietary proprietary proprietary proprietary proprietary proprietary proprietary proprietary

Other International Lists Australia (NICNAS): proprietary Fatty polyamines 1; proprietary Fatty amines; proprietary Fatty

polyamines 2

Japan (MITI): proprietary Fatty amines

Korea (TCCL): proprietary Fatty polyamines 1; proprietary Fatty amines

Philippines (RA6969): proprietary Fatty polyamines 1; proprietary Fatty amines

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Other Information Redicote® is a registered trademark of Akzo Nobel or affiliated companies and is registered in one or more countries including the United States.

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Notice to Reader

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