

Material Safety Data Sheet



MSDS# 15-01653

Section 1. Chemical Product and Company Identification

Product name **REDICOTE® E-7000****Material Uses** : Asphalt Additive.**In Case of Emergency**

Supplier/Manufacturer AKZO NOBEL SURFACE CHEMISTRY LLC
 525 West Van Buren
 Chicago, IL 60607-3823
 www.surfactants.akzonobel.com

CHEMTREC: 800-424-9300
CANUTEC: 613-996-6666
Medical/Handling: 914-693-6946
Product/Technical: 800-906-9977

Do not ship to Canada.

Section 2. Hazards Identification

Physical State Liquid.**Color** Clear. Yellow.

Emergency Overview DANGER!
 CAUSES SKIN IRRITATION.
 MAY BE HARMFUL IF INHALED OR SWALLOWED.
 MAY CAUSE EYE IRRITATION.

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

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

See Toxicological Information (section 11)

Section 3. Composition/ Information on Ingredients

Name	CAS #	% by Weight
proprietary alkyl amines Salt.	proprietary	30
water	7732-18-5	54
sodium chloride	7647-14-5	7
proprietary Acid.	proprietary	5
proprietary Amine.	proprietary	4

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 30 minutes. Cold water may be used. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Cold water may be used. 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.

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.

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Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Flash Points	Closed cup: >100°C (212°F). (Pensky-Martens.)
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), halogenated compounds, hydrogen chloride. Some metallic oxides.
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.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Use suitable protective equipment (Section 8) . Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak	Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. 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) . Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

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.
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Personal Protection

Eyes	Face shield.
Body	Full suit.
Respiratory	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Feet	Boots.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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Ingredient Name

Exposure Limits United States

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proprietary alkyl amines Salt.	Not available.
water	Not available.
sodium chloride	Not available.
proprietary Acid.	Not available.
proprietary Amine.	Not available.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Color	Clear. Yellow.
pH	5.5 to 6.5 (Conc. (% w/w): 100) [Acidic.]
Boiling/Condensation Point	Not determined.
Melting/Freezing Point	Not determined.
Pour Point	-7°C
Density	1.07 g/cm ³ (20°C / 68°F)
Vapor Pressure	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Weighted average: 0.4 compared to Butyl acetate.
Solubility	Easily soluble in cold water, hot water, methanol, acetone.
Dispersion Properties	See solubility in water, methanol, acetone.
Physical Chemical Comments	Viscosity = 45 mPas (cP) @ 10°C; 31 mPas (cP) @ 20°C; 26 mPas (cP) @ 30°C; 24 mPas (cP) @ 40°C.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility with Various Substances	Slightly reactive to reactive with OXIDIZING AGENTS, acids.
Hazardous Decomposition Products	These products are halogenated compounds, hydrogen chloride.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals

Ingredient Name or Product name	Test	Result	Route	Species
proprietary alkyl amines Salt.	LD50	>5000 mg/kg	Oral	Rat based on data for: (similar material)
sodium chloride	LD50	>3000 mg/kg	Oral	Rat
proprietary Acid.	LD50	1950 mg/kg	Oral	Rat
	LD50	1920 mg/kg	Oral	Guinea pig
	LC50	7.1 mg/l (4 hour(s))	Inhalation	Rat
Special Remarks on Toxicity to Animals	proprietary Amine.: Sub-Chronic oral toxicity (LD50) NOEL = 670 ppm Rat based on data for: (similar material)			
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified None. by NIOSH [sodium chloride]. Classified None. by NIOSH [proprietary Acid.].			
Acute Effects Skin	Severely irritating to the skin.			
Acute Effects Eyes	Moderately irritating to the eyes.			
Special Remarks on Other Toxic Effects on Humans	: proprietary alkyl amines Salt.: Skin and Eyes based on data for: (similar material)			

Section 12. Ecological Information

Ecotoxicity

Ingredient Name or Product name	Species	Period	Result
proprietary alkyl amines Salt.	Zebrafish based on data for: (similar material) (LC50)	96 hour(s)	1.9 mg/l
	daphnia based on data for: (similar material) (EC50)	48 hour(s)	12.8 mg/l
sodium chloride	Daphnia magna (EC50)	48 hour(s)	402.6 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	6094 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6390 mg/l
	Pimephales promelas (LC50)	96 hour(s)	7050 mg/l
	Pimephales promelas (LC50)	96 hour(s)	7100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	7200 mg/l

Biodegradability and Ecotoxicity Remarks

proprietary alkyl amines Salt.: 79% @ 28 day(s) CBT based on data for: (similar material)

Products of Degradation

These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...), halogenated compounds. Some metallic oxides.

Section 13. Disposal Considerations

Waste Information

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

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

Section 15. Regulatory Information

HCS Classification

Corrosive Material

U.S. Federal Regulations

TSCA: All intentionally present components are listed on the TSCA inventory.

DSL: One or more of the intentionally present components in this material is not on the DSL.

TSCA 5(a)2 final significant rules: No products were found.

CERCLA: Hazardous substances.: No products were found.

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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-7000
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: REDICOTE® E-7000:
 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 D-2B: Material causing other toxic effects (TOXIC).
 CEPA DSL: water; sodium chloride; proprietary Acid.; proprietary Amine.

European Union

Component	EC Number	EC Status	EC Annex
proprietary alkyl amines Salt.	proprietary	proprietary	proprietary
water	231-791-2	Not available.	Not available.
sodium chloride	231-598-3	Not available.	Not available.
proprietary Acid.	proprietary	proprietary	proprietary
proprietary Amine.	proprietary	proprietary	proprietary

Other International Lists

Australia (NICNAS): water; sodium chloride; proprietary Acid.
 China: water; sodium chloride; proprietary Acid.
 Germany water class: sodium chloride
 Japan (MITI): water; sodium chloride; proprietary Acid.
 Japan (MOL): proprietary Acid.
 Korea (TCCL): water; sodium chloride; proprietary Acid.
 Philippines (RA6969): water; sodium chloride; proprietary Acid.

Section 16. Other Information**Hazardous Material Information System (U.S.A.)**

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	

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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Validated by Product Safety Specialist
Print Date 4/23/2009.
Phone Number 312-544-7038

Notice to Reader

The information in the material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. However, no warranty is made as to the accuracy of and/or sufficiency of such information and/or suggestions or as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current.