

**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

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. 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 3. Hazards Identification****Physical State** Liquid.**Color** Clear. Yellow.

**Emergency Overview** WARNING!  
CAUSES SEVERE SKIN IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE EYE IRRITATION.

Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling.

**Possible Carcinogenic Effects** **proprietary alkyl amines Salt.:** IARC, NTP, OSHA, ACGIH: Not listed.  
**Water:** IARC, NTP, OSHA, ACGIH: Not listed.  
**Sodium chloride:** IARC, NTP, OSHA, ACGIH: Not listed.  
**proprietary Acid.:** IARC, NTP, OSHA, ACGIH: Not listed.  
**proprietary Amine.:** IARC, NTP, OSHA, ACGIH: Not listed.

**Routes of Entry** Absorbed through skin. 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. Cold water may be used. Get medical attention.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 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.

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| <b>Inhalation</b>                                    | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |
| <b>Ingestion</b>                                     | 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. |
| <b>Medical Conditions Aggravated by Overexposure</b> | Repeated or prolonged exposure is not known to aggravate medical condition.  |

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## Section 5. Fire Fighting Measures

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|   |   |
|---|---|
| <b>Flammability of the Product</b>          | May be combustible at high temperature.   |
| <b>Flash Points</b>                         | Closed cup: >100°C (212°F). (Pensky-Martens.)   |
| <b>Products of Combustion</b>               | These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...), halogenated compounds, hydrogen chloride. Some metallic oxides. |
| <b>Fire Fighting Media and Instructions</b> | SMALL FIRE: Use DRY chemical powder.<br>LARGE FIRE: Use water spray, fog or foam. Do not use water jet.   |
| <b>Protective Clothing (Fire)</b>           | Be sure to use an approved/certified respirator or equivalent.  |

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## Section 6. Accidental Release Measures

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|                             |   |
|-----------------------------|---|
| <b>Small Spill and Leak</b> | Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: <b>Use suitable protective equipment (Section 8)</b> . Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
| <b>Large Spill and Leak</b> | Absorb with an inert material and put the spilled material in an appropriate waste disposal. <b>Use suitable protective equipment (Section 8)</b> . Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.   |

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## Section 7. Handling and Storage

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|                 |  |
|-----------------|--|
| <b>Handling</b> | Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. |
| <b>Storage</b>  | Keep container tightly closed. Keep container in a cool, well-ventilated area.             |

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## Section 8. Exposure Controls, Personal Protection

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| <b>Engineering Controls</b> | 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. |
| <b>Personal Protection</b>  |   |
| <b>Eyes</b>                 | Splash goggles.   |
| <b>Body</b>                 | Lab coat.   |
| <b>Respiratory</b>          | Wear appropriate respirator when ventilation is inadequate.   |
| <b>Hands</b>                | Gloves.   |
| <b>Feet</b>                 | Not applicable.   |

**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**

proprietary alkyl amines Salt.  
Water  
Sodium chloride  
proprietary Acid.  
proprietary Amine.

**Exposure Limits United States**

Not available.  
Not available.  
Not available.  
Not available.  
Not available.

**Section 9. Physical and Chemical Properties**

|                                   |   |
|-----------------------------------|---|
| <b>Physical State</b>             | Liquid.   |
| <b>Color</b>                      | Clear. Yellow.  |
| <b>Molecular Weight</b>           | Not applicable.   |
| <b>Molecular Formula</b>          | Not applicable.   |
| <b>pH</b>                         | Basic.  |
| <b>Boiling/Condensation Point</b> | Weighted average: 113.79°C (236.8°F)  |
| <b>Melting/Freezing Point</b>     | Weighted average: 0.39°C (32.7°F)   |
| <b>Pour Point</b>                 | -7°C  |
| <b>Density</b>                    | 1.07 g/cm <sup>3</sup> (20°C / 68°F)  |
| <b>Vapor Pressure</b>             | Weighted average: 2.14 kPa (16.05 mmHg) (at 20°C)   |
| <b>Evaporation Rate</b>           | Weighted average: 0.4 compared to Butyl acetate.  |
| <b>Solubility</b>                 | Easily soluble in cold water, hot water, methanol, acetone.                                     |
| <b>Dispersion Properties</b>      |   |
| <b>Physical Chemical Comments</b> | 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**

|  |  |
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| <b>Stability and Reactivity</b>                | The product is stable.                                       |
| <b>Incompatibility with Various Substances</b> | Slightly reactive to reactive with oxidizing agents, acids.  |
| <b>Hazardous Decomposition Products</b>        | These products are halogenated compounds, hydrogen chloride. |
| <b>Hazardous Polymerization</b>                | Will not occur.  |

**Section 11. Toxicological Information****Toxicity to Animals**

| Ingredient Name or Product name | Test | Result     | Route | Species                                      |
|---------------------------------|------|------------|-------|--|
| proprietary Acid.               | LD50 | 1950 mg/kg | Oral  | Rat  |
|                                 | LD50 | 1920 mg/kg | Oral  | Guinea pig                                   |
| proprietary Amine.              | LD50 | 945 mg/kg  | Oral  | Rat based on data for:<br>(similar material) |

**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 Amine.:** Skin and Eyes based on data for: (similar material)

**Section 12. Ecological Information**

**Ecotoxicity**

| <b>Ingredient Name or Product name</b> | <b>Species</b>   | <b>Period</b> | <b>Result</b> |
|--|--|---------------|---------------|
| proprietary Amine.                     | Zebrafish based on data for: (similar material) (LC50) | 96 hours      | 0.1 mg/l      |

**Biodegradability and Ecotoxicity Remarks**      **proprietary Amine.:** 62% @ 28 day(s) CBT based on data for: (similar material)

**Products of Degradation**      These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub>...), 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**

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

## Section 15. Regulatory Information

**HCS Classification** Irritating 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.  
 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-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.  
 Germany water class: Sodium chloride  
 Japan (MITI): 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.

**Validation Date** 1/4/2005.

**Validated by**

**Elitania Perez**

**Previous Validation Date** No Previous Validation.

**Print Date**

1/4/2005.

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**Phone Number****312-544-7038*****Notice to Reader***

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