

Kerr Italia SpA

MATERIAL SAFETY DATA SHEET

in accordance with communitary directive 2001/58/EC

Section I - Identification of Product and Company

| | |
|--|-------------------------------------|
| Trade Product Name: Solitine | Preparation/Revision Date: 11/03 |
|--|-------------------------------------|

| | |
|---|--|
| Company Name: Kerr Italia S.p.A. | Emergency phone: (+ 41)-91-61.00.639 |
| Company Address: Via Passanti N° 332 - Scafati (SA) - 84018 - Italy | Information phone: 00-800-41-050-505 |

Section II - Composition/Information on Ingredients

| HAZARDOUS INGREDIENTS | % | SYMBOL | R | CAS N. | EINECS N. |
|-----------------------|-------|--------|-------------|------------|-----------|
| Alkanes, C9-C12 | 98-99 | F; Xn | 10-65-66-53 | 90622-57-4 | 292-459-0 |

Section III - Hazards Identification

| | |
|-----------------------|--------------------|
| HAZARD CLASSIFICATION | Flammable; Harmful |
|-----------------------|--------------------|

Section IV - First Aid Measures

| |
|--|
| Treatment for eye contact: Flush with plenty of water. |
| Treatment for skin contact: Wash with soap and water. |
| Treatment for inhalation (breathing): Move to fresh air. |
| Treatment for ingestion (swallowing): Do not induce vomiting. Call a physician. |

Section V - Fire fighting Measures

| |
|---|
| Suitable extinguishing media: Foam, dry chemical, carbon dioxide. Water spray (fog) to refrigerate containers exposed to fire. |
| Forbidden extinguishing media: Water stream in containers may cause reboiling. |
| Special fire fighting measures: Avoid heat, sparks and flames. |
| Unusual fire and explosion hazards: May explode upon heating. |
| Special protection equipment: Safety glasses and breathing self apparatus. |

Section VI - Accidental Release Measures

| |
|---|
| Personal Precautions: Wear long-sleeve cloth, safety glasses and impervious gloves. When vapors level exceeds hazard threshold, wear a self breathing apparatus |
| Environmental Precautions: Avoid draining material in sewers, on ground or reaching the vegetation. If this occur, advise immediately competent authority. |
| Reclaiming Methods: Delimit material spilled and absorb with sand and earth. It may be collected also with a pump (antideflagration or manual). Dispose of in accordance to the local regulations. |

Section VII - Handling and Storage

| |
|---|
| Handling Precautions: Keep away from ignition sources. Handle in accordance with good personal hygiene practices. |
| Precautions in case of Fire and Explosion: Use water nebulized to cool the external surfaces exposed to fire and to protect the personnel. Avoid the fire to be supported. |
| Storage Conditions: Containers could be immersed in water to keep temperature low. |
| Suggested container(s): Carbon steel, stainless steel, polyethylene, Polypropylene, Polyester, Teflon, glass. |
| Indication for Combined Storage: Keep at room temperature. The product may charge electrostatically. Use always with grounded equipments. |
| Other Precautions: Not suitable kind of containers: natural rubber, butylic rubber, EPDM, polystyrene. |

Section VIII - Exposure controls/personal protection

| | |
|------------------------------|---|
| Precautionary Measures | <u>Ventilation</u> |
| | Local Exhaust Ventilation: None. Special Ventilation: None. Mechanical (General) Ventilation: None. Other Ventilation: None. |
| Limits | TWA: Not applicable; PEL: 300ppm for 8 work hours. |
| Respiratory Protection | Use with adequate ventilation. |
| Hands Protection | Use chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact. |
| Eyes Protection | Approved safety glasses. |
| Skin Protection | May be used a lab coat or apron. |
| Other Protective Equipments: | When vapors concentration exceed hazard threshold, wear self breathing apparatus. |

Section IX - Physical and Chemical Properties

| | |
|---|---|
| Boiling Point: 157 ÷ 173°C Vapor Pressure: 10 mbar at 37,8°C | Melting Point: Not applicable Specific Gravity: 0,745 g/ml |
| Evaporation Rate (n-butane= 1): Not determined | Vapor Density (air= 1): Not determined (N/D) |
| Solubility in Water: Negligible | |
| Appearance and Odor (Physical Form): A colorless liquid with a mild mineral spirit odor. | |
| Flash Point: 38°C | Upper explosivity limit: N/D Lower explosivity limit: N/D |

Section X - Stability and Reactivity

| |
|--|
| Stability: Stable if stored and handled as described |
| Conditions to Avoid: Heat, sparks and flames. |
| Incompatibility (Materials to Avoid): Strong acids and oxidizing agents. |
| Hazardous Decomposition Products: The incomplete combustion or the thermolysis of material produce some most toxic gases as CO, CO₂, hydrocarbons, aldehydes, etc. |
| Hazardous Polymerization Products: None. |

Section XI - Toxicological Information

| |
|--|
| Carcinogenicity/Teratogenicity: No |
| <u>Effects and Hazards of Overexposure (Acute and Chronic)</u> |
| Effects and hazards of eye contact: May cause irritation, burns and redness. |
| Effects and hazards of skin contact: May cause dryness and irritation. |
| Effects and hazards of Inhalation (Breathing): May cause irritation of the respiratory tract. Large amounts cause narcosis. |
| Effects and hazards of Ingestion (Swallowing): May cause nausea, vomiting and abdominal pain. |
| Effects for prolonged Exposure: Ingestion of large amounts and bronchial inhalation may cause breathing difficulties. |

Section XII - Ecological Information

| |
|---|
| There is no specific information on the product. Use according to good working practices, avoiding release of the product into environment. |
| Mobility: The material is little mobile in the ground. It is insoluble in water and dispose itself on water surface. |
| Persistence and degradability: Easily recoverable from aqueous phase. |
| Bio-accumulation: Bio accumulator |
| Aquatic toxicity: CL ₅₀ 96h fish: > 100 mg/l |

Biodegradability: Biodegradable

Section XIII - Disposal Considerations

| |
|---|
| Dispose of in accordance to the local regulations. Incinerate liquid in proper equipment. |
|---|

Section XIV - Transport Information

| SEA TRANSPORTATION | | | | | | | | | |
|---------------------------------------|---------|--------------------|-----|-------------------------------------|----|--|------|---------------------|---|
| IMCO Number | 3375 | | | | | | | | |
| UN Number | 1268 | | | | | | | | |
| Substance(s) determining hazard | Naphtha | | | | | | | | |
| AIR TRANSPORTATION | | | | | | | | | |
| ICAO/IATA Class | 3 | | | | | | | | |
| Substance(s) determining hazard | Naphtha | | | | | | | | |
| TRANSPORTATION BY ROAD/RAILWAY | | | | | | | | | |
| <u>RID/ADR</u> Class | 3 | <u>Item</u> Number | 31c | <u>Hazard Identification</u> Number | 30 | <u>Substance</u> Identification Number | 3295 | <u>Hazard</u> Label | 3 |

Section XV - Regulatory Information

| CLASSIFICATION IN ACCORDANCE WITH EC DIRECTIVES | |
|--|---|
| HAZARD IDENTIFICATION SYMBOL | F; Xn; N |
| R Sentences | |
| 10 | Flammable |
| 65 | Harmful: may cause lung damage if swallowed. |
| 53 | May cause long-term adverse effects in the aquatic environment |
| S Sentences | |
| 23 | Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer) |
| 24 | Avoid contact with skin |
| 43 | In case of fire, use foam, dry chemical, carbon dioxide. Water spray (fog) to refrigerate containers exposed to fire. Water stream in containers may cause reboiling. |
| 62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
| Ingredients determining the label | Alcani, C9-C12 |

Section XVI - Other Information

| |
|------|
| None |
|------|

CAUTION: PRODUCT FOR PROFESSIONAL USE

The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility.