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NL-73 MATERIAL SAFETY DATA SHEET

Producer

AFEC Erma ltd

14 Ort, Netanya, 4237851, Israel Tel: +972-72-2121311 In case of emergency: ISRAEL only: 050-3533885/ 050-4000490

1. Identification of the substance / preparation and of the company / undertaking

| Identification of the product: | Liquid. |
|--------------------------------|--------------------------------|
| Company identification: | AFEC Erma ltd. |
| Trade name: | NL-73. |
| Type of product: | Concrete and mortar admixture. |
| Use: | Industrial. |

2. Composition / information on ingredients

* Chemical nature: Aqueous solution containing Alpha olefin sulfonate, Sodium Gluconate,

Calcium lignosulfonate.

* Not classified as dangerous product Substances presenting a health or environmental hazard: None.

| 3. Hazards identification | | |
|---------------------------|--|--|
| | | |

| Symptoms relating to use | |
|------------------------------------|---|
| *Inhalation: anticipated | Not expected to present a significant inhalation hazard under |
| | conditions of normal use. |
| *Skin contact: | Repeated or prolonged skin contact may cause irritation. |
| * Eye contact: | Direct contact with the eyes is likely slightly irritating. |
| * Ingestion: Swallowing a small | Must not come into contact with food or be consumed. |
| | quantity of this material presents some health |
| hazard. | |



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| 4. First aid measures | | |
|---|---|--|
| First aid measures | | |
| * Inhalation: | Assure fresh air breathing. If you feel unwell, seek medical | |
| advice. *Skin contact: | Work align therewally with mild soon and water. Sool | |
| medical attention | Wash skin thoroughly with mild soap and water. Seek | |
| | if irritation develops. | |
| * Eye contact: attention if | Rinse immediately with plenty of water. Obtain medical | |
| | pain, blinking, tears or redness persist. | |
| *Ingestion: | Rinse mouth. DO NOT INDUCE VOMITING. Seek | |
| medical attention if ill affect develops | | |
| | attention if ill effect develops. | |
| 5. Fire - fighting measures | | |
| Suitable extinguishing media: Foam. Powder. | | |
| - Unsuitable extinguishing media: Water. | | |
| Protection against fire: | Wear proper protective equipment. Do not enter fire area without proper protective equipment, including respiratory protection. | |
| Special procedures: | Exercise caution when fighting any chemical fire. | |

| 6. Accidental release measures | | | |
|--|---|--|--|
| Personal precautions: | Equip cleanup crew with proper protection. | | |
| Environmental precautions: liquid enters | | | |
| - | sewers or public waters. | | |
| * Clean up methods: | Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. | | |
| 7. Handling and storage | | | |
| Storage: not in use. | Store in dry, well-ventilated area. Keep container closed when | | |
| Handling: | Eliminate quickly from the eyes, to clean the skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. | | |

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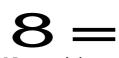


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| 8. Exposure controls / | personal | protection |
|------------------------|----------|------------|
|------------------------|----------|------------|



| | - Respiratory protection: under normal | No special respiratory protection equipment is recommended conditions of use with adequate ventilation. |
|---|---|---|
| * | - Hand protection: standard material | Wear suitable gloves resistant to chemical penetration of |
| | | nitrile. |
| * | - Skin protection: | Wear long sleeves, clothes that covers well. |
| | - Eye protection: | Safety glasses. |
| | - Ingestion: | When using, do not eat, drink or smoke. |
| | Industrial hygiene: | Provide local exhaust or general room ventilation. |

9. Physical and chemical properties

| Physical state at 20 °C: | Liquid. |
|--------------------------|-----------------|
| Color: | Dark brown |
| Odor: | Characteristic. |
| pH value: | 6 ± 2 |
| Density: | $1,14 \pm 0,03$ |
| Dry extract: | $24 \pm 2\%$ |
| Solubility in water: | Good. |

10. Stability and reactivity

| Hazardous reactions | : None under normal conditions. |
|----------------------|---------------------------------|
| Hazardous properties | : None under normal conditions. |

11. Toxicological information

| Rat oral LD50 [mg/kg] | : No data available. | |
|-----------------------|----------------------|--|
| | | |

12. Ecological information

LC50-96 Hour - fish [mg/l] : No data available.



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| 13. Disposal considerations | |
|--|--|
| General: regulations for disposal. | Avoid release to the environment. Comply with local |
| regulations for disposal. | Dispose of this material and its container at hazardous or special waste collection point. |
| 14. Transport information | |
| General information: | Not classified. |
| - IMDG-Marine pollution: | No. |
| 15. Regulatory information | |
| - Symbol(s): | None. |
| R Phrase(s): | None. |
| S Phrase(s): | None. |
| 16. Other information | |
| Recommended uses and res Further information: announced by the | trictions: See technical data sheet for detailed information. The modifications compared to the preceding version are |
| Date: | sign * in front of the headings concerned. 01/01/2020 |

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