

MATERIAL SAFETY DATA SHEET

Meets 91/155/EEC and ISO 11014-1

COMPANY DETAILS

Name: Dustex Australia Pty Ltd
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1 Product Identification

Product: **DUSTEX LIQUID**
Chemical Family: Lignosulphonates
Recommended Use: Dust suppression

2 Composition/Information on Ingredients

Product Description: Calcium Lignosulphonate
CAS No.: 8061 52 7 (Calcium Lignosulphonate)
EINECS No.: 23 25 064 (Calcium Lignosulphonate)
Hazardous Components: None
Appearance: Brown viscous liquid with very slight odour.

| Chemical Entity | CAS No. | Proportion |
|---------------------------|-----------|------------|
| Calcium Lignosulphonate | 8061 52 7 | HIGH |
| Water | 7732 18 5 | HIGH |
| Non hazardous ingredients | - | balance |
| Total | | 100% |

Proportion (% weight per weight):
VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

3 Hazards Identification

This material is not classified as hazardous or Dangerous Goods for transport.

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| Main Hazard: | None |
| Flammability: | Non-flammable |
| Chemical Hazard: | None |
| Eye Effects – eyes: | Not an eye irritant. |
| Health Effects –skin: | Not a skin irritant. |
| Health Effects – ingestion: | Not expected to be the primary route of exposure. |
| Health Effects – inhalation: | May cause irritation to nasal tract. |

4 First Aid Measures

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| Product in the eye: | Flush immediately with copious amounts of tap water. Seek medical attention if necessary. |
| Product on the skin: | Wash with water. |
| Product Ingested: | Drink water. |
| Inhalation: | Remove to fresh air. |
| If effects persist, seek medical attention. | |
| Notes to physician: | Treat symptomatically. |

5 Fire Fighting Measures

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| Specific Hazards: | Non - combustible |
| Extinguishing Media: | Water, Foam or Carbon Dioxide. |
| Protective Clothing: | Standard fire-fighting protective clothing is required. |
| Hazardous Decomposition Products: | Sulphur oxides, Carbon Monoxide. Not combustible, however following evaporation of aqueous component residual material may burn if ignited. On burning may emit fumes. Fire fighters to wear self contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. |

6 Accidental Release Measures

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| Personal Precaution: | Rubber gloves and safety goggles are recommended. |
| Environmental Precaution: | Do not discharge concentrated, undiluted product into lakes, streams, ponds, estuaries, oceans and other waters. |
| Spills: | Slippery when spilt. Avoid accidents by cleaning up immediately. Wear protective equipment to prevent skin and eye contamination. Contain – prevent run offs into drains and waterways. Use absorbent (soil, sand or other inert material) Collect and seal in properly labeled containers for disposal. |

7 Handling And Storage

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| Handling: | Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Use rubber gloves and safety goggles. Eye-wash fountains in the work place are strongly recommended. |
| Storage: | Store in a cool, dry well ventilated place and out of direct sunlight. Store away from incompatible materials described in section 10. Keep containers closed when not use – check regularly for leaks. |
| Incompatible Materials: | Incompatible with oxidizing agents. |

8 Exposure Controls/Personal Protection

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| TLV: | 5mg/m ³ |
| Personal Protection – respiratory: | Under normal conditions in the field and in normal use the smell of the product is reported as pleasant. However, hot Dustex Liquid (>70 deg Celcius) has been reported to have a mildly pungent aroma, which can be irritating for sensitive field workers exposed to the material at such elevated temperatures. Sensitive field workers can protect themselves by using a respirator should it be required. |
| Personal Protection – hand: | Product is not a skin irritant. Rubber gloves are recommended. |
| Personal Protection – eye: | Safety glasses are required. |

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| Personal Protection – skin: | Product is not a skin irritant. |
| Other Protection: | Eye wash fountain in the workplace is strongly recommended. Ensure adequate ventilation. |
| Engineering Measures: | Natural ventilation should be adequate under normal use conditions. Keep containers closed when not use. |

9 Physical and Chemical Properties

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| Physical State: | Viscous liquid. |
| Colour: | Brown |
| Odour: | Very slight odour |
| pH (10% solution): | 5.4 ± 3.0 |
| Dry Matter: | 55.0 ± 1.0% |
| Density(25 ⁰ C): | 1285 kg/m ³ |
| Solubility: | Soluble in water |
| Solubility in Organic Solvents: | Very Low |
| Partition coefficient: (N-octanol/water) | Method for determination is not available for this product. |
| Vapour Pressure: | As for water |
| Boiling Point (°C): | Not available |
| Melting Point (°C): | Not applicable |
| Flash Point (°C): | Not available |
| Explosive Properties: | None |
| Autoignition Temperature: | > 150 deg.C |

10 Stability and Reactivity

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| Hazardous Decomposition Products: | Not known |
| Materials to Avoid: | Not known |
| Conditions to Avoid: | Not known |

Stability: Incompatible with oxidizing agents

11 Toxicological Information

Acute Toxicity: LD₅₀ : > 5 g/kg

Skin Irritant: According to the OECD Guidelines No. 404, 1981, this product is not classified as a skin irritant.

Eye Irritant: According to the OECD Guidelines No. 405, 1981, this product is not classified as a skin irritant.

No adverse health effects expected if product is handled in accordance with this Safety Data Sheet and product label. Symptoms or effects that may arise if the product is mishandled and over exposure are:

Acute Effects:

Inhalation: Material may be an irritant to the mucous membranes and respiratory tract.

Skin Contact: Contact with skin may result in irritation.

Eye Contact: May be an eye irritant.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

12 Ecological Information

Aquatic Toxicity – Fish: According to OECD Method No. 203 this product is classified as not fish toxic.

Aquatic Toxicity – Algae: No data available.

Biodegradability: According to OECD Method No. 302B, this product is classified as inherently biodegradable.

Summary: Not toxic or harmful to aquatic organisms.

13 Disposal Conditions

Disposal Method: Dispose in accordance with local/national regulations governing the disposal of waste materials.

Disposal of Packaging: Residues of packing may be incinerated unless local disposal regulations state otherwise.

14 Transport Regulations

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| Regulations: | No transport regulations for this product. Not classified as Dangerous Goods and is non – hazardous. |
| References: | Marpol, Annex II, Appendix III. |
| Haz. Chem. Code: | Not applicable as product is non – hazardous. |

15 Regulatory Information

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| Information: | Not classified as dangerous for supply or conveyance. Non – hazardous. |
| Poison Schedule: | Not Applicable. |

16 Other Information

Literary Reference

This Material Safety Data Sheet meets the requirements of 91/155/EEC and ISO 11014-1.

Date of revision: 09 March 2015

Revision Status: 5

This MSDS summarises at the date of issue our best knowledge of the health hazard information of the product, and in particular how to safely handle and use the product in the workplace. This information is not a product specification and cannot be a base for contractual use. It is the responsibility of the user to review this MSDS prior to using this product and observe existing laws and directives.

This is an un-controlled version of the MSDS.