

Material Safety Data Sheet



SUPPLY COMPANY DETAILS:

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01. PRODUCT IDENTIFICATION

Trade name	Road Dust Control 10 (RDC 10).
Chemical family	Spent Neutral Calcium Semi-Chemical Liquor
Synonyms	Wetting agglomeration agent, binder and sticker.
Product use	Wetting and agglomeration.
Chemical Abstract No	Not listed.
NIOSH No	Not listed.
Hazchem Code	Not listed.
UN No	Not listed.

02. COMPOSITION

Components	CAS No.	Concentration
Calcium lignins & other organic compounds.	8062-52-7	15 – 25%
Sugars	Non Hazardous	2 – 5%
Sodium sulphite	7757-83-7	< 2%
Sodium carbonate/bicarbonate	497-19-8	< 2%
Water insoluble matter		ca 5%
Water		balance
Risk Phrases	Non Toxic, Non Corrosive, Xi (Irritant).	

03. HAZARDS IDENTIFICATION

Main hazard	None
Flammability	Non-flammable
Chemical hazard	None
Biological hazard	None, if spilled in concentrate, recover as much as possible for re-use and wash away remaining product with abundant clean water.
Reproductive hazard	None.

Eye effects If this product comes in contact with eyes it could cause eye irritation.

Health effects – Skin Prolonged contact concentrate could cause skin irritation.

Health effects – Ingestion Not expected to be the primary route of Exposure.

Health effects – Inhalation May cause irritation to nasal tract.

Symptoms Skin or eye irritation.

Note to Physician No specific treatment. Treat Symptomatically.

Protection of First-aiders No additional protection required.

04. FIRST-AID MEASURES

Product in eye Check for and remove any contact lenses. Flush immediately with large volumes of water for 15 minutes. Seek medical attention.

Product on skin Remove contaminated clothing immediately. Wash off effected area thoroughly with large volumes of water. Seek Medical advice..

Product ingested Do not induce vomiting, rinse mouth and large amount of water. Seek immediate medical attention.

Product inhaled Exposure to mist may cause irritation to and throat. Remove to fresh air. If symptoms persist seek medical attention.

05. FIRE FIGHTING MEASURES

Hazard Classification	Combustible material once water has Evaporated.
Flash Point (Method)	None below 100°C
Auto Ignition Temperature	None below 100°C
Flammable Limits	Not Applicable on liquid sample.
Extinguishing Media	Water, Foam or Carbon Dioxide.
Protective Clothing	Standard fire-fighting protective clothing is required.
Hazardous Decomposition Products	Sulphur Dioxides, Carbon Monoxide.

06. ACCIDENTAL RELEASE MEASURES

Personal precautions	Rubber gloves & safety goggles.
Environmental Precautions	Do not discharge concentrated, undiluted product into lakes, streams, ponds, estuaries, oceans and other waters.
Spills	Dam area to prevent spill from spreading, clean up excess for re-use, wash remainder away with large quantity of water.

07. HANDLING AND STORAGE

Handling/Storage Precautions	Store in a cool dry place. Rubber gloves and safety goggles are recommended. Should be handled in ways to minimize generation of vapour and mists, and to prevent spills.
Incompatible Materials	None

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	Not determined.
Engineering control measures	ISO 9001 material handling standards.
Personal protection – respiratory	None required under normal open air conditions.
Personal protection – hand	Rubber gloves.
Personal protection – eye	Protective glasses.
Personal protection – skin	Overall. Exposed skin area should be washed thoroughly after contact.
Other protection	Not required.
Hygiene measures	Prolonged contact of concentrated product can cause slight skin irritation. Washing facilities with running water must be available.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown Liquid
Odour	None to mild.
pH	5.4
Boiling point	> 100 C°
Specific gravity	> 1
Density	1285 kg/m ³ @ 25°C
Total Solids	28 -36 %
Flammability	Non-flammable in liquid form.
Explosive properties	Non-explosive.

Oxidizing properties/limit	None.
Vapour pressure	Not determined.
Solubility – water	Soluble.
Solubility – solvent	Soluble.
Solubility – coefficient	1

10. STABILITY & REACTIVITY

Hazardous Polymerisation	Will not occur
Stable	Yes
Conditions to avoid	None expected under normal use
Neutralisation	Not Required
Materials to Avoid	Not Known

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD ₅₀ : > 5g/kg
Chronic toxicity	Not determined
Carcinogenicity	Not determined
Mutagenicity	Not determined
Neurotoxicity	Not determined
Reproductive Hazards	Not determined
Skin and eye contact	Not determined

12. ECOLOGICAL INFORMATION

Ecological Hazards	A large spill into a natural water system is expected to cause acute short term toxicity to aquatic life due to depletion of dissolved oxygen levels in the water. Once sufficient natural dilution has occurred no long term effects are expected. The main organic component will tend to bind to soil particles, and will naturally decompose over (lignin are used commercially as soil binders for dirt roads).The residual chemical content will not cause toxic contamination of ground water.
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Other	The low composition of this product will have no ecological effect. The product is readily biodegradable.
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13. DISPOSAL REQUIREMENTS

Disposal methods	According to local council requirement of a non-toxic product.
Disposal of packaging	Return to supplier.

14. TRANSPORT INFORMATION

UN No or IMDG	Not regulated for transport of dangerous goods, UN, IATA, HAZCHEM
ADR/RID class	Miscellaneous n.o.s
IMDG - packaging group	Class 9 n.o.s Group III
IMDG - marine pollutant	No
IMDG - MFAG table No	Class 9 n.o.s
IATA – class	Class 9 n.o.s
ADNR – class	Class 9 n.o.s
UK – description	Class 9 n.o.s
UK - emergency action class	Class 9

15. REGULATORY INFORMATION

EU Hazard classification Not listed

Safety phrases None

National Legislation None

16. OTHER INFORMATION

Visit our website at www.i-cat.co.za or call +27 (0) 86 112 4228

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