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# 3M™ SDS Dust Suppressant for Above Ground and Below Ground Applications



## SDS – 2 Dust Suppressant in Action

### DESCRIPTION

3M™ SDS-2 Dust Suppressant is a water management tool offering unique properties which provide characteristics allowing SDS-2 to be an effective wetting agent wherever dust suppression and control is required.

Dust sources managed by SDS-2 includes:

- Recreational areas including unsealed carparks and roadways
- Local and District Council unpaved roads in new housing development areas and in waste dumps for example
- Civil road construction activities including major roadwork construction projects
- Major infrastructure developments such as dams, power stations, waste water treatment plants
- Open cut and underground mining operations
- Smelting and refining operational plant areas

Regulations regarding the reduction of particulate matter play an important part in ensuring the community is not exposed to unhealthy levels of air borne dust. SDS-2 Dust Suppressant offers the opportunity to manage the requirement for an environmentally responsible and effective solution to suppress dust.

### APPLICATIONS

3M™ SDS-2 Dust Suppressant when used according to instructions allows for the management of water as a resource and this can be particularly important in remote areas or where water is scarce.

Used in extremely low dilution rates SDS-2 lowers surface tension to allow the wetting agent to penetrate and effectively knock down dust particles before being effected by wind conditions.

A typical application rate of 0.1% means a 20 litre pail of SDS-2 is added to 20,000 litres of water making SDS-2 an effective dust suppressant.

Lower or higher dilution rates can be applied dependant upon individual circumstances.

## Mixing Instructions for Water Cart Application

Add SDS-2 to the water tank. Tank volume should be determined and a suitable ratio of SDS-2 to water established. Adding the desired quantity of SDS-2 Dust Suppressant to the water will automatically mix the two liquids.

## Environmental/Toxicological Properties

3M™ SDS-2 Dust Suppressant has undergone a programme of testing to assess the impact on the natural environment. Data indicates that this product is low in toxicity to tested aquatic organisms and biodegradable [99.88%]. Contact 3M Technical Services for more information. A Material Safety Data Sheet is available on request.

## Storage

3M™ SDS-2 Dust Suppressant may be stored for at least 5 years without change in its performance characteristics. Freezing and thawing of the product will have no effect on its performance. Freeze-thaw cycling may cause slight stratification, which may be overcome with moderate agitation.

## Packaging

3M™ SDS-2 Dust Suppressant is available in 20 litre pails. Alternative packaging of 200 litre and 1,000 litre containers also available on request.

## TECHNICAL INFORMATION

Typical Properties  
(Not to be used for Specification purposes)

|                               |                                       |
|-------------------------------|---------------------------------------|
| Nominal use Concentration     | 0.01% – 0.2%                          |
| Specific Gravity @ 20°C       | 1.040                                 |
| Viscosity (Kinetmatic) @ 20°C | 20 centistokes                        |
| Minimum use temperature       | 1.7°C                                 |
| Storage temperature           | 1.7° – 49°C                           |
| Freezing point                | -8°C                                  |
| pH @ 20°C                     | 7 – 9                                 |
| Surface tension               | ~ 23mN/m                              |
| Appearance                    | Light yellow to straw coloured liquid |

## SURFACE TENSION MEASUREMENT

| SOLUTION  | SURFACE TENSION (MN/M) |      |
|-----------|------------------------|------|
|           | 100%                   | 0.1% |
| Tap Water | 58 (50 – 70)           |      |
| SDS-2     | 23.8 (23.0)            | 25.5 |

### Important Notice

All statements, technical information, and recommendations related to sellers products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.