

spinifex Emulsion

Bulk Unsensitised

Technical Data Sheet



VERSION 3.0

SEPT 2019

Product Description

Spinifex is a water in oil emulsion explosive precursor that has been designed for use in both wet or dry blast holes in open cut hard rock mining.

Spinifex is specifically formulated to be single stream sensitised during loading into the borehole using CSBP's chemical gassing agent, or by mixing into a Heavy ANFO blend.

Application and Benefits

Spinifex Emulsion is designed for excellent fragmentation of hard ground in surface mining.

Spinifex offers excellent water resistance for use in wet blast holes.

Specific blends of Spinifex Emulsion and ANFO at densities ranging from 0.9 to 1.26 g/cc can be used depending on customer's ground conditions and energy requirements.

It is recommended that Spinifex Emulsion is sensitised with CSBP chemical gassing agent.

Storage and Handling

Spinifex Emulsion must be stored and used in accordance with Federal and State regulations governing Security Sensitive Substances and Dangerous Goods.

Spinifex Emulsion can be stored for up to 3 months, ideally at temperatures below 40°C.

Spinifex Emulsion is relatively insensitive to accidental initiation by mechanical impact and friction under normal conditions of use. Detonation may occur from heavy impact and/or excessive heating particularly under conditions of confinement.

Properties

Property	
Percent emulsion	100
Emulsion density g/cc	1.3 - 1.34
Viscosity cP	32,000 - 45,000
Maximum Shelf Life - days ¹	90

NOTES:

1. When stored under ideal conditions

Packaging and Transport

Spinifex Emulsion is supplied and transported in bulk.

Spinifex Emulsion is a Security Restricted Substance and is a Class 5.1 Oxidising Agent and therefore must be transported in accordance with Federal and State laws and regulations governing Security Sensitive Substances and Dangerous Goods.

Hazard Shipping Name: Ammonium Nitrate Emulsion

UN No.: 3375

Classification: 5.1 Oxidising agent

Packaging Group: II

Safety

Spinifex Emulsion must only be used where the ground temperatures are less than 55°C and must not be used in reactive ground areas.

Disposal of Spinifex emulsion can be hazardous. Methods of safe disposal can vary depending on the user's situation. Contact a CSBP product support representative for disposal advice.



More detailed safety and first aid information can be found in the Spinifex Ammonium Nitrate Emulsion Safety Data Sheet (SDS).

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Disclaimer: CSBP Limited (CSBP) is the manufacturer of de-sensitised ammonium nitrate emulsion, ammonium nitrate prill and gassing solution (Constituents). CSBP does not manufacture sensitised ammonium nitrate emulsion or explosives. SPINIFEX Emulsion Blend (Product) is manufactured by CSBP's customers on their sites using Constituents supplied by CSBP. Information contained in this data sheet is accurate as at the date of issue but cannot cover every application or variation of conditions under which the Product is manufactured and used. Each user is responsible for understanding the details in this data sheet and the Product applications in the context of the intended manufacture and use. It is the sole responsibility of the user to make enquiries, obtain advice and determine the necessary safe conditions for the Product's intended use. To the extent permitted by law, CSBP will not be responsible for damages of any nature resulting from use of or reliance on the information in this data sheet.