

# mullafex Emulsion

## Bulk Unsensitised

### Technical Data Sheet



VERSION 1.0

Feb 2020

### Product Description

Mullafex Inhibited Emulsion is a water in oil emulsion explosive precursor designed for use in wet or dry blast holes in open cut hard rock mining.

Mullafex Inhibited Emulsion is specifically formulated for reactive ground applications. Regulation may require testing and validation and CSBP should be consulted prior to utilization of the product.

### Application and Benefits

Mullafex Inhibited Emulsion can be used in reactive ground areas after consultation with CSBP. CSBP should be consulted to determine appropriate use for specific reactive ground conditions.

Mullafex Inhibited Emulsion is designed for excellent fragmentation of hard ground in surface mining and offers excellent water resistance for use in wet blast holes.

Specific blends of Mullafex Inhibited 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 Mullafex Inhibited Emulsion is sensitized with CSBP chemical gassing agent.

### Storage and Handling

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

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

Mullafex Inhibited 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
Density g/cc	1.3 - 1.34
Viscosity cP	32,000 -45,000
Maximum Shelf Life - days <sup>1</sup>	90

#### NOTES:

1. When stored under ideal conditions

### Packaging and transport

Mullafex Inhibited Emulsion is supplied and transported in bulk.

Mullafex Inhibited Emulsion is a Security Restricted Substance 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.

**Proper Shipping Name:** Ammonium Nitrate Emulsion

**UN No.:** 3375

**Classification:** 5.1 Oxidising agent

**Packing Group:** II

### Safety

Mullafex Inhibited Emulsion must only be used for ground temperatures less than 55°C.

Disposal of Mullafex Inhibited 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 information can be found in the Mullafex Inhibited 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. Mullafex 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.