

# PROPRIETARY ALKYL THIONOCARBAMATE MIXTURE

## TNC 5422



### TNC 5422

TNC 5422 is Prospec's proprietary alkyl thionocarbamate mixture designed to provide a balance between recovery strength and selectivity. As TNC 5422 is a neat reagent, it does not require any handling of powders and can be introduced to the flotation circuit as is.

### MINERAL PROCESSING APPLICATIONS

TNC 5422 is a kinetically aggressive collector with strong collecting capabilities with some selectivity to pyrite, lead and non activated Zinc in polymetallic applications.

TNC 5422 is suitable for application in Copper, Copper / Precious Metals (Gold, Silver), activated Zinc, Copper / Moly & Polymetallic and for Copper where selectivity to pyrite and non-activated Zinc are required. TNC 5422 can also be applied in Copper flotation where Oxide and Oxidized Copper minerals are present after treatment with a Sulphide Surface Cleaning Reagent or Sulphidizing Reagent.

As TNC 5422 is an Oily Collector it is recommended to be used in fines flotation and where slimes may cause a loss of recovery due to slimes interference. It is also recommended that part of the TNC 5422 dosage is best applied in the grind to allow the best conditions for its dispersion and enhancement of its recovery and grade benefits.

### PROPERTIES

Specific Gravity 20 °C	1.00 ±0.05
Flash Point	72 °C
pH	8.00 ±0.5

Composition	Proprietary
Appearance	Dark Amber Liquid
Freezing Point	<20°C
Flash Point (Closed Cup)	79.4°C

### DOSAGE

Solution Strength	Neat
Dosage Range	2 - 50g/t
pH Range	9.5 - 11

### STORAGE

TNC 5422 should be stored in a cool, dry, and well vented space. It should be kept out of direct sunlight.

### HANDLING

Safe handling of TNC 5422 requires the use of proper personal protective equipment such as rubber boots, high fit rubber gloves, coveralls, a properly fitted respirator with the appropriate cartridges, safety glasses, splash apron and face shield.

### HANDLING SYSTEMS

Handling systems should be manufactured to ensure that none of the components can be compromised by the chemical nature of TNC 5422 and its components. It is recommended that only mild steel and/or stainless steel be used for all components of the handling system. It is also recommended that the TNC 5422 system and any storage tanks be full discharge conical bottom, as this makes it easier to service and clean.

### PACKAGING OPTIONS

UN approved packaging options from Prospec Chemicals include;

- 200kg Plastic Drum
- 1000kg Plastic Tote
- Bulk Tanker
- Special packaging on request

### CONTACT

For additional information and support, please contact your technical account manager or Prospec Chemicals.

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