

TECHNICAL BULLETIN



19 Motivation Dve Wangara, WA, 6065 AUSTRALIA
T +61 8 9302 4000 | FREE 1800 999 196 | F +61 8 9302 5000

SCALEHIB 142

SCALE INHIBITOR FOR WATER TREATMENT

SCALEHIB 142

Contains 10-30% MALEIC ACID COPOLYMER

WARNING

May be corrosive to metals

Causes skin irritation

Causes serious eye irritation

Wear protective gloves/ protective clothing/ eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If skin or eye irritation occurs: Get medical advice/attention.

EMERGENCY INFORMATION:

Fire: Not flammable. Spills: Contain spill. Absorb onto earth or absorbant material. Transfer to clean labelled containers and dispose of according to local regulations. Additional information is listed in the Material Safety Data Sheet.

IN AN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE



**UN 3265 CORROSIVE LIQUID,
ACIDIC, ORGANIC, N.O.S.
(Maleic Acid Copolymer)**

CLASS 8 HAZCHEM 2X PG II

CONTENTS L

BATCH NO.



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MATERIAL

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SCALEHIB 142 is an acidic sequestrant for use in process water treatment. It contains a proprietary polycarboxylic acid which prevents the formation of scale and sludge.

SCALEHIB 142 controls scale deposition in process water piping and heat exchange surfaces by both threshold effect and crystal distortion. The dispersant component disperses the distorted hardness precipitates and these are kept in free suspension in the water.

It is a clear pale amber slightly viscous liquid; completely miscible in water at all concentrations.

BACKGROUND

SCALE is a combination of precipitated mineral salts and suspended solids.

SUSPENDED SOLIDS may be dust particles, biological matter and insoluble mineral matter.

Mineral salts may also be initially dissolved in the water but become insoluble (precipitate or crystallize) due to changing conditions (usually temperature, pH or the introduction of new chemical species). As these dissolved salts crystallize, they physically combine with any suspended solids to form a matrix which is called **SCALE**.

Crystal growth can be inhibited by the presence of **POLYCARBOXYLIC ACID SALTS** which distort the crystal growth and prevent them from binding and building regular crystalline shapes.

USES

SCALEHIB 142 can be used in industrial water systems

APPLICATION

SCALEHIB 142 is particularly suited for calcium carbonate scale control in moderately hard or alkaline water. **SCALEHIB 142** acts in less than stoichiometric concentrations to prevent the precipitation of scale.

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Recommended dosage of **SCALEHIB 142** is 5-10ppm in process water streams and the effectiveness monitored by the use of on-line retractable scale probes.

GENERAL DATA

Australian Dangerous Goods Classification: UN 1760; Correct Shipping Name: CORROSIVE LIQUID, N.O.S.; Hazchem: 2X; Class: 8; Sub Risk Class: No Subsidiary Risk; Packing Group: III

It is not classed as a poison by the SUSDP

SCALEHIB 142 is classified as hazardous by criteria of the NOHSC because it may cause severe eye irritation and skin irritation. It may cause respiratory and digestive tract irritation. Ingestion of mist may be very irritating

CAUTION

Avoid contact with skin and eyes and avoid breathing vapour or spray mist.

PACKAGING

20 Litre, 200 Litre & 1000 Litre containers

IMPORTANT NOTICE TO CUSTOMER

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product, which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***