

TO INHIBIT THE GROUTH OF MICROORGANISMS IN AQUE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! CORROSIVE CAUSES EYE DAMAGE AND SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION.

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING HEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES WHEN HANDLING. HASH THOROUGHLY AFTER HANDLING.

STATEMENTS OF PRACTICAL

EYES: IN CASE OF CONTACT, FLUSH EYES INNEDIATELY WITH WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. SKIN: IN CASE OF CONTACT, WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, CALL A PHYSICIAN. HASH CONTAMINATED CLOTHING BEFORE REUSE.

INTERNAL - IF SHALLOWED, INDUCE PUBLISHED IN HOUSE THE PERSON INTERNAL - IF SHALLOWED, INDUCE PUBLISHED IN HOUSE THE PERSON IN T MOUTH TO AN UNCONSCIOUS PERSON.

NOTICE:

SELLER MAKES NO HARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE USE OF THIS PRODUCT OTHER THAN INDICATED ON THE LABEL. BUYER ASSUMES ALL RISK OF USE AND/OR HANDLING OF THIS NATERIAL WHEN SUCH USE AND/OR HANDLING IS CONTRARY TO LABEL INSTRUCTION.

TK38BAC/03-94

TO BE USED IN THE STATE OF CALIFORNIA TO PRESERVE METAL WORKING FLUIDS)

DIRECTIONS FOR USE: IT IS A VIOLATION OF FEBERAL LAW TO USE THIS IN A MANNER INCONSISTENT WITH ITS LABELING. THE AMOUNT NECESSARY FOR DESIRED PROTECTION ! DEPENDING ON EXPOSURE CONDITIONS. FOR FURTHER

APPLICATION INFORMATION, REFER TO THE PRODUCT BULLETIN. ACTIVE INGREDIENT:

> 1,2-DIBROMO-2,4-DICYANOBUTANE91 INERT INGREDIENTS

ACCEPTEDMEEP OF REACH DUT OF CHILDREN MAY - 2 1996

EPA Reg. No. 10445-33 EPA REGISTRATION NO. 10445-33 EPA ESTABLISHMENT NO. 10445-PA-01

> NET HT: 30 LB WATER SOLUBLE BAGS)

SELECTION SELECTION

YER 38

01-7166-N5

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ICROORGANISMS IN AQUEOUS SYSTEMS

THE STATE OF CALIFORNIA AL WORKING FLUIDS)

3E:

FEDERAL LAW TO USE THIS PRODUCT

FOR DESIRED PROTECTION VARIES, E CONDITIONS. FOR FURTHER ION, REFER TO THE PRODUCT

ENT: 2,4-DICYANOBUTANE 98% NTS 2%

OUT OF REACH CHILDREN ANGER

TION NO. 10445-33 HMENT NO. 10445-PA-01

F: 30 LB. Water soluble bags)

M.Consolidation

ENVIRONMENTAL HAZARDS:

DO NOT DISCHARGE EFFLUENT CONTRINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEANS OR OTHER NATERS UNLESS IN ACCORDANCE WITH THE REQUIREMENTS OF A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND THE PERMITTING AUTHORITY HAS BEEN NOTIFIED IN HRITING PRIOR TO DISCHARGE. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT TO SEHER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE LOCAL SEWAGE TREATMENT PLANT AUTHORITY. FOR GUIDANCE CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA.

STORAGE AND DISPOSAL:

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL.

CONTAINERS OF TEXTAMER 38 SHOULD BE STORED OUT OF DIRECT SUNLIGHT TO MAINTAIN THE PRODUCT BELOW ITS MELTING POINT. IF PRODUCT IS EXPOSED TO SUSTAINED TEMPERATURES ABOVE 50 DEGREES C. CAKING WILL OCCUR WITH ASSOCIATED HANDLING PROBLEMS. PRODUCT EFFICACY WILL NOT BE AFFECTED. HOWEVER, DISSOLUTION TIME WILL INCREASE.

CONTAINER SHOULD BE KEPT DRY AND TIGHTLY CLOSED. WHEN THE WATER-SOLUBLE BAGS HAVE BEEN REMOVED, DISPOSE OF CORRUGATED BOX IN A SANITARY LAND-FILL, BY INCINERATION, OR, IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

WASTES RESULTING FROM THE USE OF THIS PRODUCT MAY BE DISPOSED OF ON SITE OR AT AN APPROVED WASTE DISPOSAL FACILITY.

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet for this product.

For additional information regarding incidents involving human and environmental exposure, call 412-7 13:5000 and ask for the Health and Environmental Affairs Department.

TECHNICAL DATA BULLETIN

TEKTAMER 38 is a preservative which effectively inhibits the growth of microorganisms in aqueous systems, including paints, emulsions, adhesives, joint cements, pigment dispersions, metalworking fluids, inks, polishes, and waxes. The chemical name of **TEKTAMER 38** is 1,2-dibromo-2,4-dicyanobutane*.

(NOT TO BE USED IN THE STATE OF CALIFORNIA TO PRESERVE METAL WORKING FLUIDS)

TYPICAL PROPERTIES

	98% minimum
Appearance	.Off-white to light tan powder
Bulk Density (lb/ft ³)	Approximately 48
Melting point	50-53 ^o C
Odor	Mildly pungent
Water solubility @ 20°C	0.212 gm/100 ml

TYPICAL USE LEVELS

Laboratory testing and customer use show TEKTAMER 38 is typically effective when applied at concentrations shown below. All concentrations are based on total formulation weight.

Effective

	Concentration
Aqueous paints	0.025-0.075%
Latex emulsions	0.01-0.05%
Joint cements	
Paste type, vinyl latex & pro	tein0.05-0.1%
Reconstituted powder type, vi	nyl latex & protein0.1-0.2%
Adhesives	
Starch	0.01-0.025%
Polyvinyl acetate, styrene bu	
	0.025-0.075%
	hyl cellulose0.05-0.075%
	0.075-0.1%
Dispersed pigments	
	bonate & clay0.01-0.025%
Metalworking fluids	Donate a cray
Concentrates	1-4%
Diluta fluide	
Taba	
TIIKS	

DIRECTIONS FOR USE

Aqueous Paints:

TEKTAMER 38 should be incorporated into the make-up water during the grind.

Latex Emulsions:

TEKTAMER 38 should be added using moderate agitation immediately following the cool-down of the emulsion and prior to entering the storage tank facilities.

Joint Cements:

TEKTAMER 38 should be incorporated with agitation into the make-up water blend.

Adhesives:

TEKTAMER 38 should be incorporated with agitation into the make-up water blend. However, where the adhesive is heated, TEKTAMER 38 should be added during the cool-down cycle.

Dispersed Pigments:

TEKTAMER 38 should be added using moderate agitation immediately following the cool-down of the dispersed pigment and prior to entering the storage tank facilities.

Metalworking Fluids:

TEKTAMER 38 can be readily incorporated into metalworking fluid formulations by addition to the concentrate with moderate agitation.

Waxes, Polishes, and Inks:

TEKTAMER 38 should be incorporated into the make-up water blend with moderate agitation.

COMPATIBILITY

TEKTAMER 38 is compatible with typical ingredients in end-use formulations. However, it should be added separately from amine-containing and strong nucleophylic agents during product formulation. Mixing TEKTAMER 38 with these agents may cause a reaction between the ingredients which can de-activate TEKTAMER 38.

TEKTAMER 38 is most active over a pH range of 2-9.5. In some formulations, product has shown efficacy in higher pH formulations. Laboratory testing is recommended.

CORROSION PROPERTIES

TEKTAMER 38 is compatible with materials such as PVC, polyethylene, polypropylene, Tygon, Teflon, and glass. The product is corrosive to carbon steel.

PACKAGING

TEKTAMER 38 is available in 1/2-lb. water soluble bags, packed 50 to a carton, 25-lb. net; and 110 lb. net plastic drums.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! CORROSIVE

CAUSES EYE DAMAGE AND SKIN IRRITATION

HARMFUL OR FATAL IF SWALLOWED

MAY CAUSE ALLERGIC SKIN REACTION

Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling.

STATEMENTS OF PRACTICAL TREATMENT

EYES: In case of contact, flush eyes immediately with water for at least

15 minutes and get medical attention.

SKIN: In case of contact, wash with soap and water. If irritation persists, call a physician. Wash contaminated clothing before

reuse.

INTERNAL: If swallowed, induce vomiting by administering ipecac syrup or by sticking finger down throat. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

Do not discharge into lakes, streams, or public waters unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the EPA.

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

Containers of TEKTAMER 38 should be stored out of direct sunlight to maintain the product below its melting point. If product is exposed to sustained temperatures above 50°C, caking will occur with associated handling problems. Product efficacy will not be affected. However, dissolution time will increase.

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Container should be kept dry and tightly closed.

DRUMS: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

WATER SOLUBLE BAGS: Carton and bag should be protected from freezing. If exposed to temperature $< 40^{\circ}$ F, bags become brittle and may break if handled roughly. Carton and bags must be kept dry.

NOTICE

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instruction.

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet and label for this product. For additional information regarding incidents involving human and environmental exposure, call 412-777-8000.

Produced and sold by Calgon Corporation. For further information, write to:

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