(BWT0CL)



Registered to ISO 9001:2000

Setting A New Industry Standard.

Date Prepared: March 19, 2007 Revision Date: August 22, 2012 Product Number: WBWT0CL-SF Control Number:

12270 43rd Street NE St. Michael, MN 55376

Emergency Phone Number: (800) 255-3924 (Chemtel)

SECTION I - IDENTIFICATION

Product Name:

BWT0CL

Synonyms:

Corrosion inhibitor

Chemical Family:

Inorganics

Formula:

Proprietary

Product Description:

Boiler Treatment

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredient

Percent

CAS Number

PEL

Potassium Hydroxide

>1%

1310-58-3

NDA

Sodium Nitrite

>1%

632-00-0

No data available

SECTION III - PHYSICAL/CHEMICAL DATA

Form:

Liquid

Color:

Colorless

Odor:

Odorless

Boiling Point:

No data available

Freeze Point:

>212 °F

Specific Gravity:

1.096

Density lb./gal (kg/L):

9.14 (1.10)

pH(neat):

12.8 to >13

pH(1% solution)

11 to 12

Solubility in Water:

Soluble

Molecular Weight:

Blend, not applicable

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SECTION IV - FIRE AND EXPLOSION DATA

Flashpoint:

No data available

Extinguishing Media:

Use water fog extinguishing media. Use flooding amounts of water in

early stages of fire.

Special Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus

and turn out gear.

SECTION V - REACTIVITY DATA

Stability:

Stable under normal conditions.

Hazardous Polymerization:

Thermal decomposition products > 320 °C. : NOx and Na₂0. Thermal

decomposition products > 600 °C. : Nitrogen, Oxygen, Na₂0.

Incompatibility:

Reducing agents, oxidizable substances, ammonium salt, amines of

products containing amines. Acids.

SECTION VI - HEALTH DATA

Medical Conditions Aggravated by Overexposure:.........No data is available which addresses medical

conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure

section (Toxicity) for effects (if any) observed in animals.

Inhalation:

Inhalation exposures to high vapor concentrations of formic acid may

produce CNS effects like visual and mental disturbances.

Ingestion:

Ingestion of large amounts of sodium nitrite may cause nausea,

vomiting, a bluish color to the skin and mucous membranes (as a result of methemoglobin production), convulsions, and coma. Intentional ingestion of high doses have been reported to produce salivation, vomiting, burning sensation, severe pain, metabolic acidosis, blindness

and even death.

Eyes:

Sodium nitrite and aqueous solutions of sodium nitrite may be severely

irritating to the eyes.

Skin (Dermal):

No data available

SECTION VII - FIRST AID

Breathing (Inhalation):

If inhaled, remove to fresh air. If necessary, aid in breathing and get

immediate medical attention.

Swallowing (Ingestion):

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or

having convulsions. Get immediate medical attention.

Eyes:

Immediately flush with copious amounts of water for at least 15

minutes. If irritation develops, get medical attention.

Skin (Dermal):

Wash affected areas with soap and water. Remove and launder

contaminated clothing before reuse. Get immediate medical attention.

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Note to Physician:

None.

SECTION VIII - EMPLOYEE PROTECTION

Respiratory Protection:

If dusts are generated, wear an approved dust respirator.

Eye Protection:

Chemical Goggles

Protective Gloves:

Gloves necessary to prevent contact.

Protective Clothing:

Coveralls, apron, and boots as necessary to prevent contact.

Ventilation Requirements:

Use local exhaust to control dusts.

Additional Measures:

Eyewash fountains and safety showers must be easily accessible.

Shower after handling.

SECTION IX - SPILL AND DISPOSAL DATA

Spill:

Spills should be contained, solidified, and placed in suitable containers

for disposal in a RCRA licensed facility. This material is regulated

under CERCLA ("SUPERFUND:).

Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways or

sewer systems. Dispose of containers in a licensed facility.

Recommend crushing or other means to prevent unauthorized reuse.

RCRA Status:

Not applicable.

SECTION X - TRANSPORTATION DATA

DOT Shipping Name:

Corrosive Liquids, n.o.s.(Potassium Hydroxide), 8, UN1760, PGIII

DOT Hazard Label(s):

Corrosive Corrosive

DOT Hazard Placard(s):

8, Corrosive

DOT Hazard Class: UN/NA Number:

ÚN1760

Packaging Group:

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Reportable Quantity:

1111

SECTION XI - OTHER REGULATORY INFORMATION

TSCA Status:

Listed on Inventory

Sara Section 313:

CAS: 7632-00-0 Amount: ~20% Name: Nitrous Acid, Sodium Salt

HMIS Health:

2

HMIS Flammability:

0

HMIS Reactivity:

0

HMIS Personal Protection:

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NFPA Health Hazard

2

NFPA Flammability

0

NFPA Instability NFPA Special Hazards 0 None

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SECTION XII - HANDLING AND STORAGE

Storage Requirements: Keep containers closed. During transportation and storage, sodium

nitrite must be kept strictly separate from ammonia salts, nitrogenous fertilizers or other substances containing ammonium salts, amides, products containing amides and readily oxidizable products. Protect

against heat. Protect against moisture.

Handling Procedure: Breathing must be protected when large quantities are decanted without

local exhaust ventilation. Ensure suitable air extract/ventilation on

process machinery and transportation equipment.

Conditions to avoid: Solutions are oxidized by air. Heat and acids will cause release of NOx.

SECTION XIII - TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Toxicity: Reported lethal amount in adult humans -4 -6 g/kg Tox test rating not

found. Rat, 2 year drinking water study - 0.125, 0.25%. No Compound Related Oncogenic Effects. Rat, Oral LD₅₀ - 85 mg/kg. Very Toxic. Tox test description not found-Tox Test rating not found. Rabbit, Mucous

Membrane Irritation Study - Nonirritating

Toxicity: Chronic Exposure to nitrites may cause headaches, visual problems, and

decreased blood pressure. Nitrites may react with secondary and tertiary amines to form nitrosamines, which are animal carcinogens.

Toxicity: Sodium nitrite was not carcinogenic when fed to rats in the diet at 0.2 or

0.5% for up to 115 weeks. Under certain conditions nitrite compounds may reacts with secondary amines to form potentially carcinogenic nitrosamines. Due to the possibility of nitrosamine formation, sodium nitrite is not to be used in metalworking fluids containing amines.

SECTION XIV - ADDITIONAL INFORMATION

Additional: The effects of long-term, low level exposures to this product have not

been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to

avoid any effects from repetitive acute exposures.

ABBREVIATIONS

ACGIH=American Conference of Governmental Industrial Hygienists

OSHA=Occupational Safety and Health Administration

TLV=Threshold Limit Value

PEL=Permissible Exposure Limit

TWA=Time Weighted Average

STEL=Short-Term Exposure Limit

Material Safety Data Sheet (BWT0CL)

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