



MSDS G30

Supersedes MSDS G30
with 2-26-1999 effective date.

This Material Safety Data Sheet applies to the following Baldwin Filters Part Numbers:

CW5130-P	BW5140	BW5180
CW5136	BW5141	BW5181
BW5137	BW5142	145025 - 1 oz.
BW5138	CW5150-L	145033 - 3 oz.
CW5138-P	BW5178	145041 - 4 oz.
BW5139	BW5179	145050 - 3/4 oz.

BetzDearborn Material Safety Data Sheet

Effective Date: 8-AUG-2001

Printed Date: 13-NOV-2001

1) Chemical Product and Company Identification

Product Name: BetzDearborn TR84716

Production Application Area: A Closed Cooling Water Corrosion Treatment

Company Address:

BetzDearborn, Division of Hercules, Incorporated

4636 Somerton Road, Trevose, PA 19053

Information Phone Number: (215) 355-3300

Emergency Telephone (Health/Accident): (800) 877-1940 (USA)

2) Composition/Information on Ingredients

Information for specific product ingredients as required by the U.S. OSHA Hazard Communication Standard is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS

CAS#	Chemical Name
7632-00-0	Sodium Nitrite: Oxidizer; toxic (by ingestion); potential blood toxin
7775-19-1	Sodium Metaborate Octahydrate: Potential irritant (eyes and respiratory)
149-30-4	2-Mercaptobenzothiazole: Irritant; potential sensitizer
6834-92-0	Silicic Acid, Disodium Salt (Sodium Metasilicate): Corrosive (eyes and moist tissue)
12179-04-3	Boric Acid, Disodium Salt, Pentahydrate: Irritant (abraded skin); slight irritant (respiratory)
7631-99-4	Sodium Nitrate: Oxidizer; potential blood toxin

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

3) Hazards Identification

EMERGENCY OVERVIEW

DANGER: May cause moderate irritation to the skin. Potential skin sensitizer. Severe irritant to the eyes. Dusts cause irritation to the upper respiratory tract.

DOT Hazard: Oxidizer

Emergency Response Guide: #140

Odor: Slight

Appearance: White to Yellow, Briquettes

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

Proper Fire-Extinguishing Media: Flood with water. Use of CO² or foam may not be effective.

POTENTIAL HEALTH EFFECTS

Acute Skin Effects:	May cause moderate irritation to the skin. Potential skin sensitizer.
Acute Eye Effects:	Severe irritant to the eyes.
Acute Respiratory Effects:	Primary route of exposure; Dusts cause irritation to the upper respiratory tract.
Ingestion Effects:	Toxic; May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.
Target Organs:	Prolonged or repeated exposures may cause CNS depression, primary irritant dermatitis, skin sensitization and/or toxicity to the blood.
Medical Conditions	
Aggravated:	Not Known
Symptoms of Exposure:	Respiratory tract irritation, abdominal pain, nausea, vomiting, flushing of skin, dizziness, collapse, cyanosis, and/or hypotension.

4) First Aid Measures

Skin Contact:	Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.
Eye Contact:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.
Inhalation:	If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.
Ingestion:	Do not feed anything by mouth to an unconscious or convulsive victim. Dilute contents of stomach. Induce vomiting by one of the standard methods. Immediately contact a physician.

5) Fire Fighting Measures

Fire Fighting Instructions:	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
Extinguishing Media:	Flood with water. Use of CO ² or foam may not be effective.
Hazardous Decomposition	
Products:	Thermal decomposition (destructive fires) yields elemental oxides.
Flash Point:	> 200F > 93C P-M(CC)
Miscellaneous:	Oxidizer UN1479; Emergency Response Guide #140

6) Accidental Release Measures

Protection and Spill Containment: Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

Disposal Instructions: Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - incinerate or land dispose in an approved landfill.

7) Handling and Storage

Handling: Oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids.

Storage: Keep container closed when not in use. Keep dry. Store away from acids.

8) Exposure Controls/Personal Protection

EXPOSURE LIMITS

Chemical Name	PEL (OSHA)	TLV (ACGIH)
Sodium Nitrite	Not Determined	Not Determined
Sodium Metaborate Octahydrate	Not Determined	Not Determined
2-Mercaptobenzothiazole	Not Determined	Not Determined
Silicic Acid, Disodium Salt	Not Determined	Not Determined
(Sodium Metasilicate)		
Boric Acid, Disodium Salt, Pentahydrate	Not Determined	1 MG/M3
Sodium Nitrate	Not Determined	Not Determined

Engineering Controls: Adequate ventilation to maintain air contaminants below exposure limits.

Personal Protective Equipment: Use protective equipment in accordance with 29 CFR 1910 Subpart I

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 Requirements must be followed whenever workplace conditions warrant a respirator's use. Use air purifying respirators within use limitations associated with the equipment or else use supplied air-respirators. If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

Skin Protection: Neoprene gloves. Wash off after each use. Replace as necessary.

Eye Protection: Splash proof chemical goggles.

9) Chemical and Physical Properties

Density55.000 lb/cu

Freeze Point (F).....NA

Freeze Point (C).....NA

Viscosity (cps 70F, 21C).....NA

Vapor Pressure (mmHG).....< 0.1

Vapor Density (air = 1)< 1.00

% Solubility (water).....~ 10.0

NA = Not Applicable

ND = Not Determined

OdorSlight

AppearanceWhite to Yellow

Physical StateBriquettes

Flash Point P-M (CC)> 200F > 93C

pH 1% Sol. (Approx.)10.5

Evaporation Rate (Ether = 1)< 1.00

10) Stability and Reactivity

Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities: May react with organics or reducing agents.

Decomposition Products: Thermal decomposition (destructive fires) yields elemental oxides.

BetzDearborn Internal Pumpout /Cleanout Categories: "B"

11) Toxicological Information

Oral LD50 RAT: ~190 mg/kg (NOTE: Estimated Value)

Dermal LD50 RABBIT: > 2,000 mg/kg (NOTE: Estimated Value)

12) Ecological Information

Aquatic Toxicology: No Data Available.

Biodegradation: No Data Available.

13) Disposal Considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is: D001 - Ignitable.

Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) Transport Information

DOT HazardOxidizer

UN / NA NumberUN1479

DOT Emergency Response Guide #.....140

15) Regulatory Information

TSCA: All components of this product are listed in the TSCA Inventory.

CERCLA and/or SARA Reportable Quantity (RQ): 224 lbs. due to Sodium Nitrite.

SARA Section 312 Hazard Class: Immediate (acute); Delayed (Chronic); Fire.

SARA Section 302 Chemicals: No regulated constituent present at OSHA thresholds.

SARA Section 313 Chemicals:

CAS #	Chemical Name	Range
7632-00-0	Sodium Nitrite	41.0-50.0%
149-30-4	2-Mercaptobenzothiazole	11.0-15.0%
7631-99-4	Sodium Nitrate	6.0-10.0%

California Regulatory Information

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) Chemicals Present: No regulated constituent present at OSHA thresholds.

Michigan Regulatory Information

No regulated constituent present at OSHA thresholds.

16) Other Information

NFPA/HMIS.....Code	Code Translation
Health.....2	Moderate Hazard
Fire.....0	Minimal Hazard
Reactivity.....0	Minimal Hazard
Special.....OXY	DOT or NFPA Oxidizer
(1) Protective Equipment.....B	Goggles, Gloves
(1) Refer to Section 8 of this MSDS for additional protective equipment recommendations.	

Baldwin Filters does not develop, prepare, or review the contents of any Material Safety Data Sheet; the MSDS is prepared by BetzDearborn, the manufacturer of the chemical in our product. The statements, technical information and recommendations contained herein are transmitted without warranty or guarantee of any kind, expressed or implied by Baldwin Filters. Furthermore, Baldwin Filters assumes no responsibility for any loss, damage or expense, direct or consequential, arising out of their use.



BALDWIN FILTERS® **BALDWIN**

a CLARCOR company

4400 East Highway 30 ■ P.O. Box 6010
Kearney, Nebraska 68848-6010
Phone: (308) 234-1951 ■ Toll Free: (800) 822-5394
Fax: (800) 828-4453 ■ Int'l Fax: (308) 237-9769
Internet: www.baldwinfilter.com