SAFETY DATA SHEET

BWT-20A

Revision Date: 6/15/15

SECTION 1 - IDENTIFICATION

GHS Product Identifier: **BWT-20A**

Other means of identification: Not available.

Product type: Clear Liquid.

Product use and restrictions on use: See label and/or product bulletin.

Company Name: KML, Incorporated

Company Address: P.O. Box 380
108 South Main Street
LaOtto, IN 46763-0380

Company Phone: (800) 423-1879

24 Hour Emergency: (800) 424-9300 CHEMTREC

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification of Substance or Mixture:
Acute Toxicity (oral) - Category 4
Skin Corrosion - Category 1C
Serious Eye Damage - Category 1
Specific Target Organ Toxicity, Repeated Exposure - Category 2
Hazardous to the Aquatic Environment, Acute Hazard - Category 3

GHS Label Elements:

Hazard Pictograms:

Signal Word: **DANGER**

Hazard Statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H373	May cause damage to kidney, liver, blood through prolonged or repeated exposure.
H402	Harmful to aquatic life.

Precautionary Statements

P260	Do not breathe mist and/or vapors.
P264	Wash areas exposed to product thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective chemical impervious gloves/protective clothing/eye protection and/or face shield.
P301+P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER and/or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment see first aid instructions on the SDS or label.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/state/federal regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS: None known.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% BY WT
Sodium Nitrite	7632-00-0	16 - 20
Sodium Hydroxide	1310-73-2	0.1 - 4
Tolyltriazole, Sodium Salt	64665-57-2	0.1 - 4
Sodium Molybdate Dihydrate	10102-40-6	8 - 12

Exact percentages are withheld as trade secrets. While some ingredients are clamied trade secret in accordance with OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

SECTION 4 - FIRST AID MEASURES

Inhalation: If exposure by inhalation, immediately move to fresh air. If individual experiences nausea, headache, dizziness, difficulty in breathing or is cyanotic, seek a medical care immediately. If breathing stops administer artificial respiration. If breathing is difficult administer oxygen.

Eyes: Do not rub eyes. Immediately flush eyes with plenty of cool, clean water for at least 15 minutes. Keep eyelids apart to maintain maximum contact with water.

Skin: Remove contaminated clothing and footwear. Wash thoroughly with soap and water, and do not reuse clothing until properly cleaned.

Ingestion: DO NOT INDUCE VOMITING. If conscious, first rinse mouth with copious amounts of water. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water. Seek immediate medical assistance or contact the Poison Control Center.

Notes to physician: No specific antidote is known. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptoms.

See toxicological information (Section 11)

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, dry chemicals, foam, or carbon dioxide.

Fire-Fighting Procedures: Use water spray to cool containers to prevent rupture. If spill is ignited, use water spray to disperse vapors. Water may be used to flush spills away from a fire and dilute spills. Do not flush into a storm drain or public sewer.

Hazardous Combustion Products: Oxides of carbon and nitrogen.

Unusual Fire/Explosion Hazards: Closed containers may rupture due to steam pressure build-up if exposed to extreme heat. Sodium nitrite is an oxidizer.

Fire-Fighting Equipment: Self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode. Full protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills: WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. Soak up with an absorbent material and place in an approved waste disposal container.

Large Spills: Contain spill by diking with inert material. If practical, transfer to labeled container for reuse or disposal. Otherwise, solidify spill with absorbent material or sand. Determine if waste containing this product may be handled by available industrial effluent system other on-site waste management unit. If off-site management is required, contact a licensed company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a RCRA hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this act.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION 7 - HANDLING AND STORAGE

Handling: Use proper PPE and wash thoroughly after handling. Eyewash and safety showers are recommended in the immediate work area. For industrial use only.

Storage: This material is safe to store in well ventilated areas at ambient temperatures. Keep containers closed when not in use. Protect product from freezing.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower (ANSI Z358.1). Use adequate general or local ventilation to keep airborne levels to acceptable levels.

COMPONENT	CAS NUMBER	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA FINAL PEL TWA
Sodium Hydroxide	1310-73-2	-	-	2 mg/m3	2 mg/m3
Sodium Molybdate Dihydrate	10102-40-6	0.5 mg/m3 (as Mo)	-	-	5 mg/m3 (as Mo)
-	-	-	-	-	-
-	-	-	-	-	-

Respiratory Protection: Respiratory protection is required for work areas where misting may occur. If necessary, wear MSHA/NIOSH-approved respirator, following OSHA respirator regulations (29 CFR 1910.134).

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Protective Gloves: Rubber, butyl, neoprene, or plastic gloves should be worn when using this material to avoid skin contact.

Eye Protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Do not wear contact lenses. Appropriate eye protection must be worn instead of contact lenses.

Other Protective Equipment: Not required under normal working conditions. End user must determine if the process or methods involved require other PPE.

Hygienic Practices: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Clear Liquid
Color and Odor:	Yellow to Amber - Nearly Odorless
Odor Threshold:	Not available.
pH:	12.0 - 14.0
Freezing Point:	< 12 F
Boiling Point:	212 F
Flash Point:	> 212 F (TCC)
Evaporation Rate (BuAc=1):	< 1
Flammability (Solid/Gas):	Not applicable.
Lower & Upper Flammability Limit:	Not available.
Autoignition Temperature:	Not available.
Vapor Pressure (mm Hg@20 C):	Not available.
Vapor Density (Air=1):	Not available.
Relative Density @20 C (water=1):	1.20 - 1.22
Solubility in Water:	Miscible
Partition Coefficient:	Not available.
Decomposition Temperature:	> 600 F
Volatile Organic Compounds (%):	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Product is stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization:	Hazardous polymerization cannot occur.
Chemical Incompatibilities:	Strong acids, oxidizers, amines, ammonium salts, combustible materials, cyanides, reducing agents- thiocyanates & thiosulfates.
Conditions to Avoid:	Do not overheat containers. Temperatures above 600 F will produce toxic oxides of nitrogen, which are also oxidizers.
Hazardous Byproducts:	Thermal decomposition products may include: Oxides of carbon and nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD50 Oral:	> 800 mg/kg (ATE)
	LD50 Dermal:	> 4000 mg/kg (ATE)
	LC50 Inhalation:	23 mg/l (ATE)
Irritant/Corrosion	Eyes:	Causes corrosive to eyes.
	Skin:	Causes severe irritation to corrosion to skin.
Sensitization:	Respiratory:	Not a sensitizer.
	Skin:	Not a sensitizer.
Carcinogenicity:		IARC, NTP, and OSHA do not list product ingredients as carcinogenic.
Reproductive Toxicity:		No data available for this product.
Teratogenicity:		No data available for this product.
Specific Target Organ Toxicity (single exposure):		No data available for this product.
Specific Target Organ Toxicity (repeated exposure):		Target organs: kidney, blood, and liver.
Aspiration Hazard:		No data available for this product.
Likely Routes of Exposure:		Oral, Dermal
Acute Health Effect	Eye Contact:	Moderate to severe corrosion depending on length of exposure, solution concentration and first aid measures.
	Skin Contact:	Moderate to severe irritation/corrosion will depend on solution strength, length of exposure and first aid measures.
	Inhalation:	Inhalation of mist may cause irritation or corrosion of respiratory tract. Large amounts may cause systemic effects (see ingestion).
	Ingestion:	Severely irritating to mucous membranes. Effects include drop in blood pressure, collapse, coma and possibly death.
Other Health Effects:		The effects from chronic exposure to this product have not been fully evaluated.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	LC50 Fish:	8 mg/l
	LC50 Crustaceans:	48 mg/l
	EC50 Algae:	130 mg/l
Persistence and Degradability:		No data available for this product.
Bioaccumulation Potential:		No data available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable local, state, and federal regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and/or regulations. NOTE: State and local regulations may be more stringent than federal regulations. Empty Containers: Since empty containers retain material residues, all labeled hazard precautions must be observed.

SECTION 14 - TRANSPORTATION INFORMATION

This material is regulated by the DOT? Yes

DOT Description from Hazardous Materials Table 49 CFR 172.101: UN3219, Nitrites, inorganic, aqueous solution, n.o.s., 5.1, III, (Contains sodium nitrite)

Environmental Hazards (i.e., Marnie Pollutant): None known.

Special Precautions for User: Always transport in closed containers that are upright and secure.

In Case of Transportation Emergency Call CHEMTREC: (800) 424-9300

SECTION 15 - REGULATORY INFORMATION

RCRA Hazardous Waste Number (40 CFR 261.33):	No components of this product are listed or are above the de minimus levels.
RCRA Hazardous Waste Classification (40 CFR 261):	No components of this product are listed or are above the de minimus levels.
CERCLA Hazardous Substance (40 CFR 302.4):	Sodium Nitrite, Sodium Hydroxide,
CERCLA Reportable Quantity (RQ):	100 lbs - Sodium Nitrite, 1,000 lbs - Sodium Hydroxide,
SARA 312 Hazard Category:	Immediate (Acute) Health Hazard
SARA 313 Toxic Chemical:	Sodium Nitrite,
SARA 302 Extremely Hazardous Substances List:	No components of this product are listed or are above the de minimus levels.
OSHA Air Contaminant (29 CFR 1910.1000, Table Z-1):	No components of this product are listed or are above the de minimus levels.

FDA (Food & Drug Administration): Please contact KML for more information.

NSF and/or Kosher Certified: Please contact KML for more information.

***Note**: The regulatory listings provided herein are not all inclusive of possible regulation affecting this material. It is the end-user's responsibility to determine all local, state, federal, or international regulation/restrictions that may apply.

SECTION 16 - OTHER INFORMATION

Prepared By: Ed Hodges **Date Prepared:** June 15, 2015 **Supersedes:** February 14, 2006
Title: General Manager

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
N/A	Not Applicable	TLV	Threshold Limit Value
N/E	Not Established	PEL	Personal Exposure Limit
N/D	Not Determined	STEL	Short Term Exposure Limit
UNK	Unknown	C	Ceiling Limit
EHS	Environmental, Health, and Safety Department	TCC	Tag Closed Cup
OSHA	Occupational Safety and Health Administration	PNOR	Particulates Not Otherwise Regulated
ACGIH	American Conference of Governmental Industrial Hygienists	PNOC	Particulates Not Otherwise Classified
IARC	International Agency for Research on Cancer	NTP	National Toxicology Program
ATE	Acute Toxicity Estimate	GHS	Globally Harmonized System of Classification

Hazardous Material Information System:

Health	2
Flammability	1
Reactivity	1
Protection	C

Note: The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

National Fire Protection Association:

Note: The National Fire Protection Association (NFPA) warning system is intended to be interpreted and applied by properly trained individual to identify fire, health and reactivity hazards of chemicals. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

Disclaimer: The information on this Safety Data Sheet reflects the latest information and data that we have on the hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Bulletin is the responsibility of the user. This Safety Data Sheet was prepared to comply with the OSHA Hazard Communication regulations.

*** END of Safety Data Sheet ***