

Material Safety Data Sheet

Product Trade Name: **ADDITIVE 777**

ID: Q082

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name: **ADDITIVE 777**

Manufacturer Information

Heatbath Corporation

P.O. Box 51048

Indian Orchard, MA 01151-5048

Contact Phone: (413) 452-2000

8:00 AM – 5:00 PM

CHEMTREC Emergency Phone: (800) 424-9300

24 Hours

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
007664-93-9	Sulfuric acid	< 10
000050-00-0	Formaldehyde	< 0.1

Additional Information:

This product is considered hazardous as defined by 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview:

WARNING! - Contact with this material can cause irritation or burns to the skin, eyes and mucous membranes.

Eye Contact:

This product is severely irritating to the eyes and may cause burns and irreversible damage.

Skin Contact:

This product is irritating to the skin. Contact with the skin or mucous membranes may cause irritation or burns.

Skin Absorption:

A component of this product may be absorbed through the skin.

Ingestion:

This product will cause irritation or burns to the throat, esophagus, and gastrointestinal tract if it is swallowed.

Inhalation:

Inhalation mists of this product will cause irritation or burns to the nasal passages and respiratory tract and may cause ulceration of nasal membranes.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin, gastrointestinal and respiratory disorders may be aggravated by exposure.

*** Section 4 - First Aid Measures ***

Eye Contact:

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Do not wear contact lenses when working with this chemical.

Skin Contact:

If this chemical contacts the skin, immediately wash the contaminated skin with water. If this chemical penetrates the clothing, immediately remove the clothing and wash the skin with water. If symptoms occur after washing, get medical attention immediately.

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Ingestion:

If this chemical has been swallowed, get medical attention immediately. Give victim several glasses of water to drink. Vomiting may occur spontaneously; do not induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation:

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary. If breathing difficulty persists or develops, get prompt medical attention.

First Aid: Notes to Physician

No additional information is available.

*** Section 5 - Fire Fighting Measures ***

Flash Point:	> 212 °F	Upper Flammable Limit (UFL):	Not applicable
Flammability Classification:	Nonflammable	Lower Flammable Limit (LFL):	Not applicable

Fire & Explosion Hazards:

Reaction with metals may produce flammable hydrogen gas.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons and/or toxic sulfur oxide (SO_x) fumes.

Extinguishing Media:

Use dry chemical, foam, carbon dioxide, and/or water fog.

Fire-Fighting Instructions:

Firefighters: Wear full protective clothing including self-contained breathing apparatus. Properly decontaminate all equipment after use.

*** Section 6 - Accidental Release Measures ***

Containment and Clean up procedures must be conducted in accordance with all local, state, and federal regulations.

Containment Procedures:

Stop the flow of material, if this can be done without risk. Wear appropriate protective equipment and clothing during clean up.

Clean-Up Procedures:

Absorb spill with inert material and transfer material into appropriate container(s) for disposal. Dispose of collected material according to local, state, and federal regulations.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. This product is for industrial use only. Do not take internally.

Storage Procedures:

Freezing damages this product. Keep container tightly closed when not in use. Store in a cool, well-ventilated area away from incompatible materials. (For incompatible materials, see Section 10.)

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*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits. Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

Formaldehyde (000050-00-0)

ACGIH: 0.3 ppm ceiling

OSHA: 0.75 ppm PEL, 2 ppm STEL

NIOSH: 0.016 ppm TWA; 0.1 ppm ceiling

Sulfuric acid (007664-93-9)

ACGIH: 1 mg/m3 TWA

3 mg/m3 STEL

OSHA: 1 mg/m3 TWA

NIOSH: 1 mg/m3 TWA; 15 mg/m3 IDLH

Engineering Controls:

Set up ventilation to effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear appropriate eye protection to prevent eye contact.

Skin Protection:

Wear appropriate personal protective clothing to prevent skin contact. The worker should immediately wash the skin when it becomes contaminated. Remove wet or significantly contaminated work clothing and replace. Use of impervious apron and boots are also recommended. (For chromic acid, add "Discard contaminated leather footwear.")

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, provide appropriate NIOSH/MSHA respiratory protection.

Personal Protective Equipment:

Provide eyewash fountains in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection. Provide facilities for quickly drenching the body within the immediate work area for emergency use where there is a possibility of exposure. Depending on the specific circumstances, a deluge shower, a sink or hose could be considered adequate.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Liquid	Appearance:	Clear to light yellow
Odor:	None	Vapor Pressure:	NA
Vapor Density:	NA	Boiling Point:	200 °F (93 °C)
Specific Gravity:	1.07	pH:	< 2.0
Viscosity:	ND	VOC:	None
Solubility in Water:	Complete	Evaporation Rate:	NA
Percent Volatile:	ND	Percent Solids:	ND

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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid freezing, Keep away from excessive heat and incompatible materials.

Incompatibility:

This product may react with strong acids/bases.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons and/or toxic sulfur oxide (SO_x) fumes.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information is available for the product.

B: Component Analysis - LD50/LC50

Formaldehyde (000050-00-0)

Inhalation LC₅₀ Rat: 203 mg/m³

Inhalation LC₅₀ Mouse: 454 mg/m³/4H

Oral LD₅₀ Rat: 100 mg/kg

Oral LD₅₀ Mouse: 42 mg/kg

Dermal LD₅₀ Rabbit: 270 µg/kg

Sulfuric acid (7664-93-9)

Inhalation LC₅₀ Rat: 510 mg/m³/2H

Inhalation LC₅₀ Mouse: 320 mg/m³/2H

Oral LD₅₀ Rat: 2140 mg/kg

Carcinogenicity:

A: General Product Information

No information is available for the product.

B: Component Carcinogenicity

Formaldehyde (000050-00-0)

IARC: Group 2A (probably carcinogenic to humans) – Monograph 62, 1995

NTP: Suspect carcinogen

OSHA: Suspect carcinogen

ACGIH: A2 – suspected human carcinogen (see exposure limits)

NIOSH: Occupational human carcinogen

Sulfuric acid (007664-93-9)

ACGIH: (contained in strong inorganic acid mists): A2 - Suspected Human Carcinogen

IARC: Monograph 54; 1992 (occupation exposures to strong inorganic acid mists containing sulfuric acid) [Group 1 (carcinogenic to humans)]

Chronic Toxicity

No information is available for the product. Exposure to **sulfuric acid** contained in strong inorganic acid mists has been implicated in causing cancer in humans.

Other Toxicological Information:

No information is available for the product.

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*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

Because of the low pH value of this product, it should not be released into terrestrial and/or aquatic systems.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Formaldehyde (000050-00-0)

Test & Species	Amount	Conditions
LC50 (96 hr) fathead minnow	24.1 mg/L	Flow-through, 21.7 °C, pH:6.8, 50.8 mg/L CaCO ₃
LC50 (96 hr) bluegill	0.1 mg/L	Flow-through
EC50 (96 hr) water flea	20 mg/L	
EC50 (30 min) Photobacterium phosphoreum	3.00-10.2 mg/L	Microtox test

Environmental Fate:

No data is available for this product.

*** Section 13 - Disposal Considerations ***

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous wastes. State and local regulations may differ from Federal disposal regulations. Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Proper Shipping Name	Corrosive liquid, Acidic, Inorganic, N.O.S. (contains Sulfuric Acid)
Hazard Class	8
UN / NA Number	UN3264
Packing Group	II
Product RQ (lb)	--

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information is available.

B: Component Analysis

This material contains one or more of the following chemicals, requiring identification under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Formaldehyde (000050-00-0)

SARA 302:	TPQ = 500 pounds; RQ = 100 pounds
SARA 313:	Form R reporting required for 0.1% de minimis concentration
CERCLA:	Final RQ = 100 pounds (45.4 kg)

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Sulfuric Acid (007664-93-9)

SARA 302: TPQ = 1000 pounds; RQ = 1000 pounds

SARA 313: acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 1000 pounds (454 kg)

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

No information is available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA	RI
Formaldehyde	000050-00-0	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sulfuric acid	007664-93-9	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis – Inventory

All components are on the U.S. EPA TSCA Inventory List and Domestic Substance List-Canada.

Component	CAS #	US TSCA	CANADA DSL	EUROPE EINECS
Formaldehyde	000050-00-0	Yes	Yes	Yes
Sulfuric acid	007664-93-9	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Formaldehyde	000050-00-0	0.1% item 781 (918)
Sulfuric acid	007664-93-9	1% item 1485 (138)

***** Section 16 – Other Information *****

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 1 Other:
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 2 Fire: 0 Reactivity: 1 Personal Protection:
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

MSDS Change History:

- 3/12/03: Rev.04; MSDS as issued by Chemtech Finishing Systems.
- 1/18/05: Chemtech Finishing Systems acquired by Heatbath Corporation.
- 4/05/05: Rev.05; Chemtech MSDS issued under new manufacturer: Heatbath Corporation.
 Sec.1 - Manufacturer Information Updated
 Sec.16 - MSDS Change History section added
 Sec.16 - Contact Information Updated

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Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Heatbath Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Jeff Szotek
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This is the end of MSDS for ADDITIVE 777.