

1 Identification of the substance/mixture and of the company/undertaking

- 1.1 **Product Identifier**
Trade Name: **BAY CLEANER**
Product Type: Acidic detergent
- 1.2 **Recommended Use:** Floor, Wall & Equipment Cleaner/Brightener
- 1.3 **Details of the supplier of the safety data sheet**

Company: Woltco Inc.
700 Main Street
Coopersville, MI. 49040
Phone: 1-616-837-7373



- 1.4 **Emergency Information**
Contact Info: CHEMTREC: 1-800-424-9300 (24 HOUR RESPONSE)

2 Hazards Identification

- 2.1 **Classification of the substance or mixture**
Skin Corrosion: Category 1 Carcinogenicity: Category 1A
Eye Corrosion: Category 1 Aspiration Hazard: Category 2
Acute Toxicity: Category 3 (oral, dermal, inhalation)

- 2.2 **Label Elements**
Symbol(s)



Signal Word: **DANGER**
Hazard Statements: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
H314 - Causes severe skin burns and eye damage
Precautionary Statements: P262 - Do not get in eyes, on skin or clothing.
P280 - Wear protective gloves, eye protection and apron when handling.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P302 - IF ON SKIN: Rinse area with water for several minutes.
P305 - IF IN EYES: Rinse cautiously with water, remove contact lens if any. Continue rinsing.
P337+P313: If eye or skin irritation persists. Get medical attention or advice.

HMIS-ratings (scale 0-4) Definitions: 0-least, 1-slight, 2-Moderate, 3-High, 4-Extreme

HEALTH	3
FIRE	0
REACTIVITY	1
Protection	D

3 Composition/Information on Ingredients

- 3.1 **Substances**

CAS Number:	Component	% by weight (optional)
7732-18-5	Water	>60
7664-93-9	Sulfuric Acid	10 to 20
111-76-2	2-Butoxyethanol	1 to 5
1341-49-7	Ammonium Bi Fluoride	<2
mixture	Surfactants	

Chemical characterization: Mixture of the above ingredients to form a single uniform solution.

- 4 First aid measures**
- 4.1 Description of first aid measures**
- General Info: Remove any clothing soiled by this product and wash before re-using.
- Inhalation: Ensure supply of fresh air and keep person(s) calm and comfortable for breathing. Get medical help.
WARNING: It may be hazardous to the person administering mouth-to-mouth resuscitation given this material is toxic and corrosive and they may also need to seek medical attention after administering CPR.
- Eye Contact: Flush immediately with water. Remove contact lens if any and continue flushing. Get medical help quickly.
- Skin contact: Remove all contaminated clothing immediately. Rinse area for several minutes with water then apply some calcium gluconate gel to the affected area and get medical help if soreness or irritation persists.
- Ingestion: Do not induce vomiting. If person is conscious give 1-2 glasses of water or milk and seek medical attention. If not available give several anti-acid tablets (ex: tums). Do not delay medical attention.
- 4.2 Most important symptoms and effects, both acute and delayed**
Overexposure to this product can lead to hypocalcemia.
- 4.3 Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

- 5 Fire-fighting measures**
- 5.1 Extinguishing media**
- Suitable for use: foam, carbon dioxide, dry powder, water spray
- Not suitable for use: water jet is not recommended.
- 5.2 Special hazards arising from the substance or mixture**
Product will react violently with soft metals in neat form forming hazardous gases (eg. Zinc).
- 5.3 Advice for fire-fighters**
This product will not burn. Treat area as for surrounding fire. Wear self-contained breathing apparatus pressure demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Product is corrosive and toxic.

- 6 Accidental Release Measures**
- 6.1 Personal precautions, protective equipment and emergency procedures:**
Use personal protective equipment, keep unprotected persons away. Ensure adequate ventilation during clean up.
- 6.2 Environmental precautions:**
Do not allow to enter drains or waterways.
Do not purposely discharge into the subsoil/soil.
- 6.3 Methods and material for containment and clean up:**
Take up with absorbent material (universal binder, diatomaceous earth). For large spills dike area then scoop or pump product into plastic containers for disposal. Small amounts of this product can be rinsed with large amounts of water into a sanitary sewer system. *Neutralizing with a 20% soda ash solution prior to clean up can reduce disposal hazards.

- 7 Handling & Storage**
- 7.1 Precautions for safe handling**
- Advice on safe handling: No special measures are necessary if stored and handled as prescribed.
- Handling: Caps should be tight and outside of container free of residue before moving.
- Hygiene measures: Do not eat or drink when using this product. Wash hands after using. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin.
- General measures: Avoid contact with eyes and skin and do not inhale concentrated vapors.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Prevention of fire and explosion**
- Information: No special measures required.
- Storage**
- Information: Store with lids tightly sealed. Keep at room temperature, out of direct sunlight. Best if used within 2 years of manufacturer date.

- 8 Exposure Controls/Personal Protection**
- 8.1 Control parameters:**
Components with limit values that require monitoring at the work place:

Component	CAS-No.	Statutory basis/list	Value type	Value
Ammonium Bi Fluoride	1341-49-7	OSHA PEL	TLV	2.5 mg/m3 (as fluorides)
Sulfuric Acid	7664-93-9	OSHA PEL	TWA	1 mg/m3
2-butoxyethanol	111-76-2	ACGIH	TLV	20 ppm, 8 hours (all forms)
		OSHA PEL	TWA	TWA: 50 ppm, 8 hours (Skin)

8.2	Exposure controls	(continued from page 2)
	Engineering controls	
	Appropriate controls:	Good general ventilation (local exhaust) should be sufficient to control airborne levels.
	Personal protective equipment	
	Eye Protection:	Use chemical resistant goggles, face shield or safety glasses with side shields.
	Hand Protection:	Rubber gloves
	Body Protection:	None required, but a chemical resistant apron is always suggested to protect clothing.
	Respiratory Protection:	Select a NIOSH approved respirator for acid mists, Ensure good ventilation when using.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<u>Product State:</u>	Liquid	<u>Auto Igniting:</u>	Product is not selfigniting
<u>Color:</u>	Amber	<u>Vapor Density:</u>	Not Determined
<u>Odor:</u>	Sharp Pungent	<u>Vapor Pressure:</u>	Not Determined
<u>pH:</u>	<1	<u>Evaporation Rate:</u>	Not Determined
<u>Boiling Point:</u>	>212°F	<u>Viscosity:</u>	Not Determined
<u>Freeze Point:</u>	<32°F	<u>Decomposition Temp:</u>	Not Determined
<u>VOC's % by wgt:</u>	<5	Partition Coefficient	Not Determined
<u>Phosphorous %:</u>	None	(n-octanol/water)	
<u>Specific Gravity:</u>	1.10-1.15	<u>Flash Point °F:</u>	>200
<u>Solubility:</u>	Soluble		

10 Stability and Reactivity

10.1	Reactivity:	Product is not reactive under normal conditions.
10.2	Chemical Stability:	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Under proper storage and handling no reactions are possible.
10.4	Conditions to avoid:	None known.
10.5	Incompatible materials:	Strong oxidizers
10.6	Hazardous decomposition products:	Sulfur Dioxide, Halogenated Compounds, Carbon Dioxide

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity of known ingredients:

Ammonium Bi Fluoride

LD50: Information is not available.

Sulfuric Acid

Oral: LD50 (rat): 2140 mg/kg Inhalation LC50 (rat): 510 mg/m³

2-butoxyethanol

Oral: LD50 (rat): 470 mg/kg Dermal: LD50 (rabbit): 220 mg/kg Inhalation: LC50 (rat): 450 mg/L, 4 hours

Acute Effects of this mixture:

Skin: Contact with strong forms will cause a severe rash or burns. Overexposure can lead to hypocalcemia.
 Eye: Produces rapid serious eye irritation or possible damage.
 Ingestion: Harmful to mucous membranes, mouth, throat, stomach and other organs.
 Inhalation: Concentrated mists cause respiratory discomfort, cough or dizziness can lead to chronic complications.

Carcinogens: Sulfuric Acid is a known suspect carcinogen according to OSHA.

*No other toxicological data is available on this mixture.

12 Ecological Information

12.1-12.6 No ecological information is available nor has been performed on these sections.

General Notes:

Do not allow large quantities of undiluted product enter the ground, waterways or waste water canals.
 This product is harmful to aquatic life.

13 Disposal Considerations

13.1 Waste treatment methods

Product:

Follow local regulations for proper disposal and reporting of spills.

Contaminated packaging:

If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards. Original labels must not be removed, lids closed and provide person collecting the container(s) with an SDS.

14 Transport Information

Not dangerous according to transport regulations

14.1	UN number:	UN3264
14.2	UN proper shipping name:	Corrosive, Liquid, Acidic Inorganic, NOS (Ammonium Bi Fluoride, Sulfuric Acid)
14.3	Transport hazard class(es):	8
14.4	Packing group:	II
14.5	Environmental hazards:	Aquatic
14.6	Special precautions for user:	None known

15 Regulatory Information

Proposition 65 (Chemicals known to cause cancer)

Sulfuric Acid

Section 313 (specific toxic chemical listings)

Ammonium Hydrogen Fluoride, Sulfuric Acid, 2-Butoxyethanol

Section 355 (extremely hazardous substances)

Ammonium Hydrogen Fluoride, Sulfuric Acid

TSCA (Toxic Substances Control Act)

All ingredients are listed, registered or exempted.

16 Other Information

DISCLAIMER:

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Since conditions of use are beyond our control we make warranties, expressed or implied. If anything is added to this product the information presented here may be altered and could make this SDS invalid. This SDS shall not establish a legally valid contractual relationship.

LEGEND:

ACGIH: American Conference of Governmental Industrial Hygienists / CAS:Chemical Abstracts Services

CHEMTREC:Chemical Transportation Emergency Center / DOT:Department of Transportation

EHS:Extremely Hazardous Substances / EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System / IARC:International Agency for Research on Cancer

LEL/UEL:Lower and Upper Explosive Limit / mg/m³:Milligrams per cubic meter / LD50:Lethal Dose 50%

NIOSH:National Institute of Occupational Health & Safety / NFPA:National Fire Protection Association

NTP:National Toxicology Program / OSHA:Occupational Safety & Health Administration

PEL:Permissible Exposure Limit / PPE:Personal Protective Equipment /

SARA:Super fund Amendments and Reauthorization Act / SDS:Safety Data Sheet / TLV:Threshold Limit Value

TWA:Time Weighted Average / TSCA:US Toxic Substance Control Act