

**Safety Data Sheet** 

# Accellent Etch

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Accellent Etch

Synonyms/Generic Names: None

Product Number: 8036

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30) www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS INDENTIFICATION

Hazard Not Otherwise Classified (HNOC): Contact with acids liberates very toxic gas.

#### Signal Words: Danger

**Pictograms:** 



#### **GHS Classification**

Acute toxicity, Oral	Category 3
Skin irritation	Category 2
Serious eye damage	Category 1

#### GHS Label Elements, including precautionary statements:

#### **Hazard Statements:**

H301	Toxic if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.

#### **Precautionary Statements:**

P264	Wash hands thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.	

P302+P352	IF ON SKIN: Wash with plenty of water.	
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/doctor/physician.	
P330	Rinse mouth.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local regulations.	

#### **Potential Health Effects**

Eyes	Causes eye burns.	
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous	
	membranes and upper respiratory tract.	
Skin	May be harmful if absorbed through skin. Causes skin burns.	
Ingestion	May be fatal if swallowed.	

### **NFPA Ratings**

Health	3
Flammability	0
Reactivity	0
Specific hazard	Not Available

### HMIS Ratings

Health	3	
Fire	0	
Reactivity	0	

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Sodium Fluoride	1-2	7681-49-4	231-667-8	NaF	41.99 g/mol
Sulfamic Acid	4-5	5329-14-6	226-218-8	NH₂SO₃H	97.09 g/mol
Hydrogen Peroxide	4-5	7722-84-1	231-765-0	H <sub>2</sub> O <sub>2</sub>	34.01 g/mol
Water	Balance	7732-18-5	231-791-2	H <sub>2</sub> O	18.00 g/mol

## 4. FIRST-AID MEASURES

<b>Eyes</b> Rinse with plenty of water for at least 15 minutes and seek medical attention imme Cold water may be used. Keep the eyelids apart and away from the eyeballs during irrigation. Do not use oily drops or ointment or HF skin burn treatments on the eyes medical attention immediately, preferably an eye specialist. Place ice pack on eyes reaching emergency room.		
Inhalation	<b>on</b> Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.	
Skin	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Material is absorbed through the skin. Get medical attention immediately. While waiting for medical attention, it has been shown that flushing the affected area with water for one minute and then massaging HF Antidote Gel into the wound until there is a cessation of pain is a most effective first aid treatment. HF Antidote Gel contains Calcium Gluconate which combines with HF for insoluble Calcium Fluoride, thus preventing the extraction of calcium from the body tissue and bones. Another alternative first aid treatment, after thorough washing of the burned area, is to immerse the burned area in a solution of 0.2% iced aqueous Hyamine 1622 or	

	0.13% iced aqueous Zephiran Chloride. If immersion is impractical, towels could be soaked		
	with one of the above solutions and used as compresses for the burn area. Hyamine 1622		
	is a trade name for Tetracaine Benzethonium Chloride. Zephiran is a trade name for		
	Benzalkonium Chloride.		
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If		
-	conscious, wash out mouth with water. Get medical attention immediately.		

### **5. FIREFIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide on fires involving this product. Use appropriate media on adjacent fires. Use flooding quantities of water to cool unopened containers.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides, hydrogen fluoride, sulfur oxides, sodium oxides, and nitrogen oxides) under fire conditions. (See also Stability and Reactivity section).

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Evacuate and ventilate the area. Neutralize spill with appropriate media (vermiculite or other absorbent material), then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with local regulations.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Hydrogen Peroxide	1.4 mg/m <sup>3</sup> 1 ppm	PEL	OSHA
	1.4 mg/m <sup>3</sup> 1 ppm	TLV	ACGIH
	1.4 mg/m <sup>3</sup>	REL	NIOSH

#### Occupational exposure controls:

	1 ppm		
Sodium Fluoride	2.5 mg/m <sup>3</sup>	PEL	OSHA
	2.5 mg/m <sup>3</sup>	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

**REL: Recommended Exposure Limit** 

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

**CEIL:** Ceiling

#### **Personal Protection**

Eyes	Wear chemical safety glasses with a face shield for splash protection.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an
	approved respirator.
Skin	Wear neoprene or nitrile gloves, full body (synthetic) protective clothing appropriate to the
	risk of exposure.
Other	Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Odorless.
Odor threshold	Not Applicable
рН	2.5-3.1
Melting point/freezing point	Not Applicable
Initial boiling point and boiling range	Not Applicable
Flash point	Not Applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Applicable
Vapor density	Not Applicable
Relative density	1.04 (water = 1)
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Applicable
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Applicable

# **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Combustible materials, strong reducing agents, concentrated
	acids.
Hazardous Decomposition	Carbon oxides, hydrogen fluoride, sulfur oxides, sodium oxides,
Products	and nitrogen oxides

# 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Hydrogen	Peroxide
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Hydrogen Peroxid	
Skin	LD50 Dermal – rat – 4060 mg/kg
Eyes	Not Available
Respiratory	LC50 Vapor – rat – 2000 mg/m – 4 hours
Ingestion	LD50 Oral – mouse – 2000 mg/kg
Sulfamic Acid	
Skin	Skin – rabbit – severe skin irritation – 24 hours
Eyes	Eyes – rabbit – severe eye irritation – 24 hours
Respiratory	Not Available
Ingestion	LD50 Oral – mouse – 1312 mg/kg
	LD50 Oral – rat – 3160 – mg/kg
	LD50 Oral – guinea pig – 1050 mg/kg
Sodium Fluoride	
Skin	Not Available
Eyes	Eyes – rabbit – eye irritation – 24 hours
Respiratory	Not Available
Ingestion	LD50 Oral – rat – 31 mg/kg
	LD50 Oral – mouse – 44 mg/kg
	LD50 Oral – rabbit – 200 mg/kg
	LD50 Oral – domestic animals – 100 mg/kg
	LD50 Oral – bird (wild) – 110 mg/kg
	TDLo Oral – Human – 0.214 mg/kg
	TDLo Oral – Human – 3.57 mg/kg
	TDLo Oral – Human – Male – 1662 mg/kg
	TDLo Oral – Human – Female – 7 mg/kg

### Carcinogenicity

IARC	3 – Group 3: Not classifiable as to its carcinogenicity to humans (sodium fluoride).
	3 – Group 3: Not classifiable as to its carcinogenicity to humans (hydrogen peroxide).
ACGIH	No components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is
	identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

Redness, burning, itching and pain.
Eye burns, pain, watering eyes.
Coughing, shortness of breath, burning, choking, coughing, wheezing, laryngitis,
headache or nausea.
Causes irritation and pain, nausea, vomiting, burns of the gastrointestinal tract.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Target Organ(s)	Kidneys, Heart, Bone, Nerves, Gastrointestinal tract, Lungs
Reproductive Toxicity	Not Available
<b>Respiratory/Skin Sensitization</b>	Not Available

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Hydrogen Peroxide		
Aquatic Vertebrate	Not Available	
Aquatic Invertebrate	Not Available	
Terrestrial	Not Available	
Sulfamic Acid		
Aquatic Vertebrate	Not Available	
Aquatic Invertebrate	Not Available	
Terrestrial	Not Available	
Sodium Fluoride	3	
Aquatic Vertebrate	Mortality NOEC – Cyprinodon variegates (sheepshead minnow) – 500 mg/l – 96	
	nours	
	_C50 – Oncorhynchus mykiss (rainbow trout) – 200 mg/l – 96 hours	
Aquatic Invertebrate	EC50 – Daphnia magna (water flea) – 98 mg/l – 48 hours.	
Terrestrial	Not Available	
Persistence and Degrad	Persistence and Degradability Not Available	
Bioaccumulative Poten	ial Not Available	
Mobility in Soil	Not Available	
PBT and vPvB Assess	ent Not Available	
Other Adverse Effects	Not Available	

# **13. DISPOSAL CONSIDERATIONS**

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

### **14. TRANSPORTATION INFORMATION**

US DOT	UN3289, Toxic liquid, corrosive, inorganic, n.o.s., (sodium fluoride and sulfamic acid), 6.1, (8), pg II	
TDG	UN3289, TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S., (SODIUM FLUORIDE AND SULFAMIC ACID) 6.1, (8), pg II	
IMDG	UN3289, TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S., (SODIUM FLUORIDE AND SULFAMIC ACID) 6.1, (8), pg II	
Marine Pollutant	No	
IATA/ICAO	UN3289, Toxic liquid, corrosive, inorganic, n.o.s., (sodium fluoride and sulfamic acid), 6.1, (8), pg II	

# 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Listed: Sodium Fluoride
Massachusetts: Toxic or Hazardous Substance List,	Listed: Sodium Fluoride, Hydrogen Peroxide
Right to Know	
Pennsylvania: Hazardous Substance List	Listed: Sodium Fluoride
New Jersey: Right to Know Hazardous Substance List	Listed: Sodium Fluoride, Hydrogen Peroxide,
	Sulfamic Acid
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard
SARA 312	Acute Health Hazard
SARA 313	Not Listed
WHMIS Canada	Class D2A: Poisonous and infectious material -
	Other effects – Very toxic.
	Class E: Corrosive material.

### **16. OTHER INFORMATION**

Revision	Date
Original	07/06/2012
Revision 1	03/24/2014
Revision 2	02/15/2016
Revision 3	06/23/2022

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