

# **Safety Data Sheet**

Issue Date: 22-Apr-2008 Revision Date: 14-Sep-2015 Version 1

# 1. IDENTIFICATION

Product Identifier

**Product Name** Patton Eliminator

Other means of identification

SDS# PATTON-004

**UN/ID No** UN1790

Recommended use of the chemical and restrictions on use

**Recommended Use** Truck wash pre-spray and aluminum brightener.

Details of the supplier of the safety data sheet

**Manufacturer Address** Patton Industrial Services 1005 Aero Drive Shreveport, LA 71107

**Emergency Telephone Number** 

**Company Phone Number** 318-227-4000

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Blue liquid Physical State Liquid Odor Acrid acid

# Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

# Signal Word Danger

# **Hazard Statements**

Harmful if swallowed

Causes severe skin burns and eye damage



## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do not induce vomiting

# **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sulfuric Acid	7664-93-9	<5
Ammonium bifluoride	1341-49-7	<5
Citric Acid	77-92-9	<5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### 4. FIRST-AID MEASURES

#### **First Aid Measures**

**General Advice** Immediately call a poison center or doctor/physician.

**Eye Contact** Check for and remove contact lenses. Immediately flush eyes for 5 minutes in clear running

water while holding eyelids open; irrigate open eyelids with 500 to 1,000 cc's of 1% Calcium Gluconate in saline solution; seek medical attention with emphasis on hydrofluoric acid

exposure.

**Skin Contact** Remove contaminated clothing while flushing area with drenching shower for 5 minutes.

Launder contaminated clothing before reuse; if irritation develops seek medical attention with emphasis on hydrofluoric acid exposure. Apply 2.5% Calcium Gluconate ointment to

contacted area.

**Inhalation** Remove affected person to fresh air; if breathing problems persist, get medical attention

with emphasis on hydrofluoric acid exposure. If breathing is difficult, supply oxygen. If

breathing has stopped, begin artificial respiration.

**Ingestion** Drink high amounts of calcium based antacid in water followed by milk or milk of magnesia.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek

medical attention with emphasis on hydrofluoric acid exposure.

# Most important symptoms and effects

**Symptoms** Harmful if swallowed. Causes severe skin burns and eve damage.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

This product is corrosive. Contact with B: C extinguisher powder may produce large amounts of carbon dioxide. Material can generate explosive hydrogen gas on contact with certain metals.

Hazardous Combustion Products Smoke, fumes or vapors, and oxides of carbon. Fluorine vapors.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep containers cool with water spray to prevent container rupture due to steam buildup; CAUTION - material is corrosive.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

**Personal Precautions** CAUTION - material is corrosive.

**Environmental Precautions** See Section 12 for additional Ecological Information. Do not discharge into lakes, ponds,

streams or public waters.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Allow only trained hazard response personnel in the area. Confine and absorb into

approved absorbent. Place material into approved containers for disposal. For spills in excess of allowable limits (RQ), notify the National Response Center (800) 424-8802; refer to CERCLA 40 CFR 302 for detailed instructions; refer to SARA Title III, Section 313, 40

CFR 372 for reporting requirements.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on Safe Handling CAUTION - material is corrosive. Wash face, hands and any exposed skin thoroughly after

handling. Do not eat, drink or smoke when using this product. Do not breathe

dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing and eye/face

protection.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep container closed when not in use. Protect container from physical

damage. Protect from extreme temperatures.

Packaging Materials This product will attack glass, concrete, and certain metals.

Incompatible Materials Strong oxidizing agents. Strong alkalis. Most metals. Cyanides. Sulfides. Glass. Ceramics.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium bifluoride	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F
1341-49-7		TWA: 2.5 mg/m <sup>3</sup> dust	
		(vacated) TWA: 2.5 mg/m <sup>3</sup>	
Sulfuric Acid	TWA: 0.2 mg/m <sup>3</sup> thoracic	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup>
7664-93-9	fraction	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Citric Acid	-	15 mg / m3 (Total)	-
77-92-9			
Glycerol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

#### **Appropriate engineering controls**

Engineering Controls The use of local exhaust ventilation is recommended. Use corrosion-resistant ventilation

equipment. Showers. Eyewash stations.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Chemical splash goggles.

Skin and Body Protection Protective gloves are required; Use Saranex, Barricade, Chemrel, Responder, or Butyl

rubber gloves. Do not use nitrile rubber, polyvinyl alcohol, or polyvinyl chloride gloves. A chemical resistant butyl rubber apron or other approved chemical resistant equipment

should be worn to prevent skin contact.

Respiratory Protection None required while threshold limits are kept below maximum allowable concentrations; if

TWA exceeds limits, NIOSH approved respirator must be worn. A chemical cartridge respirator with acid cartridge is recommended. If concentration exceeds capacity of cartridge respirator, a self-contained breathing apparatus is advised. Refer to 29 CFR

1910.134 or European Standard EN 149 for complete regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical StateLiquidAppearanceBlue liquidOdorAcrid acidColorBlueOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** <1.0

Melting Point/Freezing Point 0 °C / 32 °F Boiling Point/Boiling Range 100 °C / 212 °F

Flash Point Non-flammable

Evaporation Rate <1 (Water = 1)

(Water = 1)

Property Values Remarks • Method

Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit

Liquid-Not applicable
Not applicable

 Vapor Pressure
 17 mm Hg
 @ 20°C (68°F)

 Vapor Density
 >1
 (Air=1)

Not determined

**Specific Gravity** 1.005 **Water Solubility** Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Like that of water **Dynamic Viscosity** Not determined **Explosive Properties** Not determined

VOC Content (%) 99%
VOC Content None

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

**Oxidizing Properties** 

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

# **Conditions to Avoid**

Incompatible Materials. Extreme temperatures. Contact with active metals.

# **Incompatible Materials**

Strong oxidizing agents. Strong alkalis. Most metals. Cyanides. Sulfides. Glass. Ceramics.

#### **Hazardous Decomposition Products**

In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, fluorine and smoke may be produced.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

# **Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

# **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium bifluoride 1341-49-7	= 130 mg/kg ( Rat )	-	-

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Sulfuric Acid	= 2140 mg/kg (Rat)	-	$= 510 \text{ mg/m}^3 \text{ (Rat) 2 h}$	
7664-93-9				
Citric Acid	= 3000 mg/kg (Rat)	-	-	
77-92-9				
Quaternary Cocoalkylamine	= 580 mg/kg (Rat)	-	-	
Ethoxylate				
61791-10-4				
Alcohols, C9-11 ethoxylated	= 1400 mg/kg (Rat) = 1378 mg/kg	> 2 g/kg (Rabbit)	-	
68439-46-3	(Rat)			
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h	
56-81-5				

# Information on physical, chemical and toxicological effects

Please see section 4 of this SDS for symptoms. **Symptoms** 

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

IARC has classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid. Inorganic mist is not generated under normal use of this

product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium bifluoride 1341-49-7		Group 3		
Sulfuric Acid 7664-93-9	A2	Group 1	Known	X

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)

Known - Known Carcinogen

Carcinogenicity

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

# **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sulfuric Acid		500: 96 h Brachydanio rerio		29: 24 h Daphnia magna
7664-93-9		mg/L LC50 static		mg/L EC50
Citric Acid		1516: 96 h Lepomis		120: 72 h Daphnia magna
77-92-9		macrochirus mg/L LC50		mg/L EC50
		static		
Glycerol		51 - 57: 96 h Oncorhynchus		500: 24 h Daphnia magna
56-81-5		mykiss mL/L LC50 static		mg/L EC50

# Persistence/Degradability

Not determined.

#### Bioaccumulation

Not determined.

#### **Mobility**

Chemical Name	Partition Coefficient
Citric Acid	-1.72
77-92-9	
Glycerol	-1.76
56-81-5	

#### **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sulfuric Acid	Toxic
7664-93-9	Corrosive

# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

**UN/ID No** UN1790

Proper Shipping Name Hydrofluoric acid solution

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

IATA

UN1790

Proper Shipping Name Hydrofluoric acid solution

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

**IMDG** 

UN1790

Proper Shipping Name Hydrofluoric acid solution

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group ||

# 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sulfuric Acid	Present	Х		Present		Present	Х	Present	Х	Х
Ammonium bifluoride	Present	Х		Present		Present	Х	Present	Х	Х
Citric Acid	Present	Х		Present		Present	Х	Present	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# US Federal Regulations

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sulfuric Acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7664-93-9			RQ 454 kg final RQ
Ammonium bifluoride	100 lb		RQ 100 lb final RQ
1341-49-7			RQ 45.4 kg final RQ

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

# **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ammonium bifluoride - 1341-49-7	1341-49-7	3	1.0
Sulfuric Acid - 7664-93-9	7664-93-9	3	1.0

# **CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric Acid	1000 lb			X
Ammonium bifluoride	100 lb			Х

# US State Regulations

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Sulfuric Acid - 7664-93-9	Carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium bifluoride 1341-49-7	X	X	X
Sulfuric Acid 7664-93-9	X	X	X
Glycerol 56-81-5	Х	X	Х

# **16. OTHER INFORMATION**

NFPAHealth Hazards<br/>Not determinedFlammability<br/>Not determinedInstability<br/>Not determinedSpecial Hazards<br/>Not determinedHMISHealth Hazards<br/>3Flammability<br/>0Physical Hazards<br/>1Personal Protection<br/>C

Issue Date:22-Apr-2008Revision Date:14-Sep-2015Revision Note:New format

# **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**