Modified 12/24/2015

Safety Data Sheet (SDS)

HEAVY DUTY ACID

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product identifiers**

Product name	:	PROTECT IT HEAVY DUTY ACID Aluminum Brightener & Wheel Cleaner
Product identifier	:	PII-761
Product Family	:	Aqueous mixture

1.2 **Relevant identified uses of the substance or mixture and uses advised against**

Identified Uses	:	Automotive body detailing

1.3 **Details of the supplier of the safety data sheet**

Company	:	PROTECT IT, INC. 699 Quinn Ave. San Jose, CA 95112
Telephone	:	1-800-366-5661

1.4 **Emergency telephone number**

Emergency phone #	:	PERS NORTH AMERICA 1-800-633-8253 INTERNATIONAL 1-801-629-0667

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910(OSHA HCS)

H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.

Precautionary Statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
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/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310 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.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.2 GHS Label elements, including precautionary statements

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SIGNAL WORD: WARNING

PICTOGRAM

3. COMPOSITION/INFORMATION ON INGREDEINTS

Component	CAS number	Warnings	Concentration
NONIONIC SURFACTANT BLEND	MIXTURE		>5%
HYDROFLOURIC ACID	7664-39-3		5-10%
2—BUTOXY ETHANOL	111-76-2		1-5%
SULFURIC ACID	7664-93-9		5-10%

4. FIRST AID MEASURES

First aid procedures

After inhalation:

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious. If victim is consious, rinse mouth with water and contact emergency number listed in section 1.4.

After contact with skin:

Immediately wash skin with water. May cause irritation, burns or skin damage. Seek medical attention if irritation or allergic reaction is present. Remove contaminated clothing, shower immediately.

After contact with eyes:

Immediately flush eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek prompt medical attention if redness or irritation occurs. Remove contact lenses if able. Seek medical advice.

After ingestion:

Rinse mouth with water, contact poison control center or emergency number listed in section 1.4. Consult a physician. Never give anything by mouth to an unconscious person.

Advice to doctor / Treatment:

None known.

5. FIRE FIGHTING MEASURES

Flashpoint: Unknown, aqueus mixture.
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable
Self ignition: Not applicable
Ignition temperature: not tested.
Hazardous combustion products: carbon oxides, sulfur oxides.
Extinguishing media: water spray jet, alcohol-resistant foam, carbon dioxide, dry powder.
Special fire fighting procedure: Apply alcohol-type or all purpose-type foams by manufacturers' recommended techniques for large fires or water spray. Use carbon dioxide or dry chemical media for small fires. Use self-contained breathing apparatus and protective equipment. Cool endangered containers with water jet.
Unusual fire and explosion hazards: Product can potentially float on water..

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use the Personal protective Equipment recommended in Section 8 of this SDS

Environmental Precautions Spilled product may present a slipping hazard or result in unintended fumes or contact. Please absorb excess, rinse area and ensure adequate ventilation.

Methods for Containments and Clean-up Contain large spills as best as possible. Dam flow with appropriate inert materials and absorb centralized spillage with inert material such as vermiculite, cat litter or diamaceous earth. Sweep and dispose of as needed. For small spills, wipe away and wash exposed area.

7. HANDLING AND STORAGE

Handling Wear gloves while in use, protect hands, face and skin from exposure. Dispose of any contaminated clothing.

Storage Store with caution. Do not store in temperatures above 120F. Bottle/container may swell and or fumes accumulate. Store in adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guideline Comments		Exposure Limits:
2-Butoxyethanol	111-76-2	TWA 20.000000 ppm USA. ACGIH Threshold Limit Values (TLV) Remarks Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices . Confirmed animal carcinogen with unknown relevance to humans. Potential for dermal absorption. TWA 50.000000 ppm 240.000000 mg/m3 USA. Occupational Exposure Limits (OSHA)
Hydrofluoric acid	7664-39-3	TWA 0.500000 ppm USA. C 2.000000 ppm USA. ACGIH Threshold Limit Values (TLV) TWA 3.000000 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2 TWA 2.500000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 L imits for Air Contaminants
Sulfuric acid	7664-93-9	TWA 0.2 mg/m3 USA. ACGIH Threshold Limit Values (TLV) TWA 1 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 TWA 1 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Engineering Controls Adequate ventilation necessary. Appropriate storage.

Personal Protective Equipment (PPE)

Eye/Face Protection Please wear appropriate face/eye protection and a niosh approved respirator.

Skin Protection Wear gloves while in use.

Respiratory Protection Niosh approved respirator for airborne particles if adequate ventilation not present.

General Hygiene Considerations Treat products as sum of its components. Oxides and particulate matter may irritate lungs. Wash hands before and after use and before smoking eating or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Appearance	clear
Particle Size	**N/A**
Odor	acrid
Odor Threshold	No Available Data
Molecular Formula	Mixture
Molecular Weight	Mixture
Boiling Point	180F
Decomposition Temperature	No Available Data
Melting point	32F
Freezing Point	32F
Relative Density	**1.07**g/cm3
Bulk Density	No Available Data
Solubility in Water	100%
Solubility in other liquids	No Available Data
pH	2-3
Flash point	No Available Data

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid extreme temperatures.
Hazardous Decomposition Products	carbon oxides, sulfur oxides.
Possibility of Hazardous Reactions	Do not bring into contact with oxidizers, caustic or basic materials.

11. TOXICOLOGICAL INFORMATION

2—BUTOXY ETHANOL

Acute toxicity LD50 Oral - Rat - male - 880 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male - 1,060 mg/kg (OECD Test Guideline 402) LD50 Intraperitoneal - Rat - 220 mg/kg LD50 Intravenous - Rat - 307 mg/kg Skin corrosion/irritation Skin - Rabbit Result: Skin irritation - 20 h Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation - 24 h (OECD Test Guideline 405) Respiratory or skin sensitisation Maximisation Test (GPMT) - Guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406) Germ cell mutagenicity Hamster ovary Result: negative OECD Test Guideline 474 Mouse - male Result: negative Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol) NTP: No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SULFURIC ACID

Acute toxicity LD50 Oral - Rat - 2,140 mg/kg LC50 Inhalation - Rat - 2 h - 510 mg/m3 Dermal: No data available

Skin Irritation/Corrosion

Damaging/irritating to skin.

Eye Irritation/Corrosion

Causes eye irritation/damage.

Effects of Short-Term (Acute) Exposure

Damage to area in contact, resulting in chemical burns/irritation/damage.

Inhalation
Fumes/vapor/mist may burn lungs and potentially be fatal/hazardous.
Ingestion
Liquid is toxic and damging to mouth, esophagus and stomach.

12. ECOLOGICAL TOXICITY

General Comments
2-BUTOXYETHANOL

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1,474 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 1,550 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 1,840 mg/l - 72 h (OECD Test Guideline 201) 12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 28 d Result: 90.4 % - Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Shipping Information
UN No 2922 Corrosive liquid, toxic, n.o.s. (Hydrofluoric Acid)
Hazard Class: 8 (6.1)
Packing group: II
Special Shipping Information
Not applicable.
NFPA/HMIS
3 HEALTH
0 FLAMMABILITY
0 REACTIVITY

15. REGULATORY INFORMATION

United States
SARA 302 Components The following components are subject to reporting levels established by SARA Title III, Section 302: Hydrofluoric acid CAS-No. 7664-39-3 Revision Date 1993-04-24 SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Hydrofluoric acid CAS-No. 7664-39-3 Revision Date 1993-04-24
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard
2-Butoxyethanol CAS-No. 111-76-2
Sulfuric acid CAS-No. 7664-93-9
Massachusetts Right To Know Components
2-Butoxyethanol CAS-No. 111-76-2
Sulfuric acid CAS-No. 7664-93-9
Hydrofluoric acid 7664-39-3 1993-04-24
Pennsylvania Right To Know Components

Sulfuric acid CAS-No. 7664-93-9
2-Butoxyethanol CAS-No. 111-76-2
Hydrofluoric acid 7664-39-3 1993-04-24

New Jersey Right To Know Components

2-Butoxyethanol CAS-No. 111-76-2
Sulfuric acid CAS-No. 7664-93-9
Hydrofluoric acid 7664-39-3 1993-04-24

California

California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer. CAS-No. 7664-93-9

16. OTHER INFORMATION

SDS Prepared by	**PROTECT IT, INC.**
Disclaimer	This health and safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, to maintain revised copies of this information to be requested. When applicable, revised copies shall be sent to customers whom have been directly supplied with this substance. It must be known that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the user. The information given in the Data Sheet is designed only as guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only be competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this sheet.