Safety Data Sheet - according to: 1907/2006 EC (REACH), 1272/2008/EC (CLP), GHS ST_SG_AC10_30_Rev7e

Section 1 - Identification

Product Identifier: PS Battery Terminal Cleaner

Supplier: Professional Series, LLC

Supplier Address: 375 Ivyland Rd. Suite 8
Warminster PA 18974

Supplier Phone:

In Case of Spills or Medical Emergency:

24 HRS, 7 DAYS

North American Shipments: 1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

International Shipments:

Intended Use Industrial or Automotive Commercial Uses Only. Not for general household use.

Uses To Avoid Applications that generate fluid mist in air above threshold values shown below in Section 8.

Section 2 - Hazard Identification

Signal Word: **DANGER**

Substance Or Mixture Mixture

Other than flammability, no specific data exists for this mixture. Hazard classifications are calculated based on component information, according to GHS protocols for the relevant hazard.

Hazard Classifications:

Acute Toxicity Oral (Category 3), Eye damage/irritation (Category 1),

Hazard Statements based on component information:

HAZARDS: Causes serious eye damage.

Precautions:

Do not handle until all safety instructions are understood. Avoid breathing fumes or mist. Avoid skin contact. Wear protective clothing, gloves, and eye protection before handling. Use only with adequate ventilation.

PICTOGRAMS:

Other Hazards Not Resulting In Classification: May be hazardous to soil dwelling organisms.

Summary: Read entire SDS prior to use. Observe all precautions. Use engineering controls to minimize human exposure to workplace chemicals.

Section 3 - Composition / Information on Ingredients

FN 5453

	CAS Number	% Range
DISTILLED WATER	7732-18-5	60 - 100
ETHYLENEDIAMINETETRAACETICACID SODIUM SALT	10378-23-1	1 - 5
POTASSIUM HYDROXIDE SOLUTION	1310-58-3	1 - 5
DIPHOSPHORIC ACID TETRAPOTASSIUM SALT	7320-34-5	5 - 15
2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID	77-92-9	1 - 5
TRIPROPYLENEGLYCOL MONOETHER	25498-49-1	1 - 5
TRADE SECRET COMPONENT	MIXTURE	1 - 5
MODIFIED CARBOXYLATE	SUPPLIER PROPRIETARY	1 - 5
ACID RED SOLUTION	MIXTURE	< 1

Exact percentages and component identities are being witheld as trade secrets. Occupational Exposure Levels, Toxicity, and Ecological information on components is shown in Sections 8, 11, and 12 below. Users should read and understand the entire SDS. More specific information on components will be released to medical professionals in case of emergency.

Section 4 - First Aid Measures:

First responders should wear clothing appropriate for industrial exposure in accordance with local codes. At a minimum, all exposed skin should be covered, and latex gloves and eye protection meeting ANSI Z87 or CSA Z94.3 should be worn. First responders should avoid contact with spilled material. Spills of this material present a slip hazard. If smoke, fumes, or airborne mist is present, first responders should use organics respirator or self contained breathing apparatus.

IF SWALLOWED: Get immediate medical attention. Call poison control center.

IF INHALED: Remove affected person to fresh air and make comfortable for breathing. Get immediate medical attention.

IF IN EYES: Remove contact lenses and rinse eyes with cool water. Get immediate medical attention.

IF ON SKIN: Remove contaminated clothing. Wash immediately with soap and water. Get immediate medical attention.

IF ON CLOTHES: Do not allow skin contact with contaminated clothing. Remove contaminated clothing and wash before re-use.

IF EXPOSED: Contact physician if you feel unwell.

Most Important Symptoms ACUTE: Dermal /Respiratory irritation, vision effects. DELAYED: No symptoms expected.

Indication of Immediate Medical Attention Difficulty breathing, dizziness, extreme drowsiness, eye irritation, loss of vision, skin rash.

Section 5 - Fire Fighting Measures:

Flash Point: **>93C**

Hazardous Decomposition Products N/A Product Will Not Burn

Appropriate Extinguishing Media Not applicable - product is water based and does not burn..

Specific Fire Hazards Not applicable - product is water based and does not burn

Special Protective Actions Not applicable - product is water based and does not burn.

Section 6- Accidental Release Measures:

Personal Precautions

Spills present a slip hazard. Remove unneccesary personnel from area around spill. Prior to cleaning up, don protective gear including chemical and hydrocarbon resistant outer layer, latex or rubber gloves, rubber boots, and eye protection. Emergency responders should wear chemical and hydrocarbon resistant gear.

Environmental Precautions

Small spills may be wiped up with rags. For spills >10 litres- if possible to safely do so, contain the spilled material using diatomaceous earth and/or absorbent pads. Dike drains and prevent material from entering sewers, ditches, drains, or water courses. Place absorbed material into sealed storage containers and consult an environmental expert for proper disposal measures. Immediately report any discharges that escape containment to the local environmental authority or fire department.

Methods for Cleaning Up

Absorption with diatomaceous earth and/or absorbent pads is best. Do not use vacuum. Do not wash hydrocarbon or chemical spills away into sewers or drains. Use proper disposal methods for spent absorbents and contaminated rags or clothing.

Section 7- Storage and Handling:

Precautions for Handling

Read and understand entire Safety Data Sheet prior to handling. Wear all appropriate protective gear listed in section 2 above prior to handling. Handle with care to avoid spillage.

Methods for Safe Storage

Store only in original containers. Store containers indoors away from heat and flames. Store in secure location with good ventilation. Keep container sealed when not transferring product. Protect from rain and extreme cold. Avoid storage of hydrocarbons near strong mineral acids or materials marked 'Oxidizer'.

Section 8- Exposure Controls/Personal Protection:

Control Parameters

No exposure limits are established for this mixture. Users should use lowest exposure value shown for components in this section.

Component Information - Occupational Exposure Limits:

DISTILLED WATER	None Established
ETHYLENEDIAMINETETRAACETICACID SODIUM	None Established
POTASSIUM HYDROXIDE SOLUTION	ACGIH TLV 2mg/M3
DIPHOSPHORIC ACID TETRAPOTASSIUM SALT	None Established
2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC	No TLV established
TRIPROPYLENEGLYCOL MONOETHER	None Established
TRADE SECRET COMPONENT	Contains no substances with occupational exposure limit values.
MODIFIED CARBOXYLATE	No Known Hazard
ACID RED SOLUTION	

Personal Protective Gear

Eye/Face Protection: ANSI Z87.1-1989 ; Gloves: Latex or Neoprene.

Engineering Controls

Engineering controls should ensure adequate ventilation to keep airborne concentrations below threshold values shown above. Pumps and handling equipment should be designed to reduce human exposure potentials to liquids being transferred from containers into closed systems.

Section 9- Physical Properties

Appearance	Clear to Hazy Liquid	**Upper Explosive Limit**	Not Applicable - Water Based
Odor	Low Indescript	**Lower Explosive Limit**	Not Applicable - Water Based
Odor Threshold	No Data Available	**Vapour Pressure**	Not Applicable - Water Based
pH	7.0 - 11.5	**Vapour Density**	>1 (air=1)
Melting Point	Liquid under intended use conditions	**Relative Density**	1.0-1.09 kg/l 60C
Freezing Point	0	**Solubility**	Water, Alcohols
Initial Boiling Point	No Data Available	**Partition Coefficient**	No Data Available
Boiling Range	N/A Water Based	**Auto Ignition Temp**	Not Applicable
Flash Point	>93C	**Decomposition Temp**	Not Determined
Evaporation Rate	<1 (n-butyl acetate =1)	**Viscosity cSt 40C**	NA - Water Based

Section 10- Physical Properties:

Reactivity	May react violently if combined with strong oxidizers and heat.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Keep away from fire, sparks, and other sources of ignition.
Possibly Hazardous Reactions	None known.
Incompatible Materials	Strong acids and materials marked 'Oxidizer'.
Hazardous Decomposition Products	N/A Product Will Not Burn

Section 11- Toxicological Information:

Symptoms of Exposure:

Likely Routes of Exposure	Dermal or Eye exposure from pouring or handling concentrated product. Intended use of product is in enclosed washer systems which prevent worker exposure to mists.
Ingestion	Stinging/burning of lips and mouth from incidental contact. Swallowing large amounts may cause chemical burns in mouth/throat, and vomiting.
Inhalation	Exposure to airborne mists or fumes may cause respiratory irritation and/or dermal irritation.
Dermal/Eye	Eye exposure to concentrated product causes immediate eye burns and irreversible eye damage. Dermal exposure causes immediate skin corrosion. Exposure to airborne mists or fumes at diluted use concentrations may cause eye and/or dermal irritation.
Immediate or Delayed Effects	Immediate: Skin/Eye corrosion from exposure to concentrated aqueous acid or alkaline material. Delayed: None Known.
Interactive Effects	None Known

Numerical Measures of Toxicity - components (all LD/LC/EC 50 values shown below are based on animal or fish data) at max range value section 3.

Acute Oral Toxicity: DISTILLED WATER: Non Hazardous; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: LD50 >2000 mg/Kg; POTASSIUM HYDROXIDE SOLUTION: LD50 51-300 mg/kg; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 Rat, >2444mg/kg mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Hazardous; TRIPROPYLENEGLYCOL MONOETHER: LD50 3200 mg/Kg; TRADE SECRET COMPONENT: LD50 2,001 mg/Kg; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Acute Skin Toxicity: DISTILLED WATER: Non Hazardous; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Non Hazardous; POTASSIUM HYDROXIDE SOLUTION: LD50 may cause serious burns to human tissue. mg/Kg; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 Rat, >4640mg/kg mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Hazardous; TRIPROPYLENEGLYCOL MONOETHER: Non Hazardous; TRADE SECRET COMPONENT: Non Hazardous; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Acute Toxicity Inhalation DISTILLED WATER: Non Hazardous; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: LD50 May cause damage to the upper respiratory tract. mg/Kg; POTASSIUM HYDROXIDE SOLUTION: Non Hazardous; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 No data available mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Data Available; TRIPROPYLENEGLYCOL MONOETHER: Non Hazardous; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Section 11- Toxicological Information: (continued)

Skin Corrosion: DISTILLED WATER: Non Irritating; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Non Irritating; POTASSIUM HYDROXIDE SOLUTION: Cat 1 Corrosive; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: Rabbit, moderate; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Cat 1 Corrosive; TRIPROPYLENEGLYCOL MONOETHER: No Data Available; TRADE SECRET COMPONENT: Non Irritating; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Eye Corrosion: DISTILLED WATER: Non-Categorized, Suspected Eye Irritant; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Cat 2A Serious Irritation; POTASSIUM HYDROXIDE SOLUTION: Cat 1 Serious Damage; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: Cat 2A Serious Irritation; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Cat 1 Serious Damage; TRIPROPYLENEGLYCOL MONOETHER: Cat 2B Eye Irritant; TRADE SECRET COMPONENT: Cat 1 Serious Damage; MODIFIED CARBOXYLATE: Non-Categorized, Suspected Eye Irritant; ACID RED SOLUTION: Non-Categorized, Suspected Eye Irritant

Respiratory Sensitization: DISTILLED WATER: Non Sensitizing; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: Non Sensitizing; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: Non Sensitizing; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Sensitizing; TRIPROPYLENEGLYCOL MONOETHER: Non Sensitizing; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Skin Sensitization: DISTILLED WATER: Non Sensitizing; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: Non Sensitizing; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: Non Sensitizing; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Sensitizing; TRIPROPYLENEGLYCOL MONOETHER: No Data Available; TRADE SECRET COMPONENT: Non Sensitizing; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Germ Cell Mutagenicity: DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: No Data Available; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Data Available; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard; TRIPROPYLENEGLYCOL MONOETHER: No Data Available; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Carcinogen: DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Hazard; POTASSIUM HYDROXIDE SOLUTION: No Data Available; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Hazard; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard; TRIPROPYLENEGLYCOL MONOETHER: No Hazard; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Reproductive Effects: DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: No Data Available; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Data Available; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard; TRIPROPYLENEGLYCOL MONOETHER: No Data Available; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Section 11- Toxicological Information: (continued)

Target Organ 1 Exposure: DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: All human tissue damaged on contact.; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: Eye irritant; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard; TRIPROPYLENEGLYCOL MONOETHER: No Data Available; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Target Organ Multiple Exposure: DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Cat 2 Toxicant- CNS, Liver, Kidneys (animal data); POTASSIUM HYDROXIDE SOLUTION: No Hazard; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Data Available; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard; TRIPROPYLENEGLYCOL MONOETHER: No Data Available; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Aspiration Hazard: DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Hazard; POTASSIUM HYDROXIDE SOLUTION: No Data Available; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Data Available; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard; TRIPROPYLENEGLYCOL MONOETHER: No Hazard; TRADE SECRET COMPONENT: No Hazard; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Other Information No Other Information Available.

Section 12- Ecological Information:

Ecological Summary Alkaline or Acid cleaners have varying degrees of toxicity. Information on components is shown below.

Bioaccumulation Alkaline or Acid cleaners are water soluble and have low bioaccumulatoin potential. Information on components is shown below.

Persistance & Degradability Alkaline or Acid cleaners have good biodegradability and are not persistent in the environment.

Waste Treatment Effects Product residues are not expected to enter publicly operated treatment works. No negative effects of this mixture are known.

Soil Mobility No data available.

Other Adverse Effects None Known

Toxicity to aquatic organisms, component information:

Aquatic Toxicity, Acute: DISTILLED WATER: Non Toxic; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: L(E)C5011-100mg/l; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Data Available; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Toxic; TRIPROPYLENEGLYCOL MONOETHER: Non Toxic; TRADE SECRET COMPONENT: Non Toxic; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Volatile Organic Content:

Aquatic Toxicity, Long Term: DISTILLED WATER: No Chronic Aquatic Toxicity; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available; POTASSIUM HYDROXIDE SOLUTION: Cat 3 Chronic Aquatic Effects; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: No Data Available; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Chronic Aquatic Toxicity; TRIPROPYLENEGLYCOL MONOETHER: No Chronic Aquatic Toxicity; TRADE SECRET COMPONENT: No Chronic Aquatic Toxicity; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Ozone: This product neither contains, nor was manufactured with a Class lor Class ll ODS as defined by 40 CFR 82, Subpt. A, App.A + 8.

Section 13- Disposal Considerations:

Disposal Containers & Methods Unused material is not a RCRA hazardous waste. Mixture with other wastes may cause classification as hazardous waste. Users must determine compliance with local, state, and federal regulations for proper classification and disposal of used oils and mixtures thereof. Suitable containers include steel and polyethylene drums and totes, for containment of used oil. Secondary containment is advised. Containers should be kept sealed and protected from rain and exposure.

Physical Chemical Properties Affecting Disposal Changes in physical and chemical properties during use, such as contamination with lead, zinc, or other metals, may affect classification for disposal. Used oils should be tested to determine metals content and applicable local, state, and federal regulations governing disposal of such fluids.

Improper Disposal Discharging of oily wastes into any sewer , watercourse, or unregulated drain is discouraged as improper and may result in fines, penalties, cleanup costs, and criminal liabilitites for responsible parties.

Precautions for Landfill Oily liquid should not be disposed in a landfill. Disposal of oily absorbents, rags, or other items into a landfill should only be done with proper permission from local, state, and federal authorities.

Section 14- Transport Information:

US DOT 49 CFR Parts 171-180:

Proper Shipping Name: Not Regulated

Combustible Liquid Exemption: N/A

UN/ID/NA Number: NA

Transport Hazard Class NA **Packing Group** NA **Labels:** **NA** **ERGCode** **NA**

Marine Pollutant: **No**

IATA-DGR

IATA Proper Shipping Name **NA** **UN/ID Number** **NA**

IATA Class **NA** **IATA Packing Group:** **NA** **IATA Labels** **NA**

IMDG-CODE

IMDG Proper Shipping Name **NA**

IMDG UN/ID Number **NA** **IMDG Shipping Class** **NA** **IMDG Packing Group** **NA**

IMDG Labels **NA** **IMDG Marine Pollutant:** **No**

MARPOL **Not available for sale in bulk marine shipments**

MARPOL 73/78 Annex II **Special Precautions** None

Section 15- Regulatory Information:

NOTE: Information provided in this section reflects the best available information from suppliers of components used to manufacture this mixture, as of the date of this revision shown below.

OSHA 1910.1200 Hazardous Chemical: Hazards are classified as reported in Section 2 above.

SARA 302 EHS No Known Hazard or Not Listed

SARA 311/312 **Acute** No **Chronic** No **Fire** No **Pressure** No **Reactivity** No

SARA 313 EHS No Known Hazard or Not Listed

TSCA Status: All Components are properly registered

US State Lists & Regulations:

CA Prop 65 This product contains substances known to the State of California to cause cancer: Nitrilotriacetic acid; based on CA 65 List as of August 2018.

US State Right To Know Information:

IL RTK: Nitrilotriacetic acid, trisodium salt CAS 5064-31-3;; Potassium Hydroxide CAS 1310-58-3;;

MA RTK: Nitrilotriacetic acid, trisodium salt CAS 5064-31-3;; Potassium Hydroxide CAS 1310-58-3;;

MN RTK:

NJ RTK: Ethylenediaminetetraacetic acid, tetrasodium salt CAS 64-02-8;; Potassium Hydroxide CAS 1310-58-3;;

NY RTK:

PA RTK: Ethylenediaminetetraacetic acid, tetrasodium salt CAS 64-02-8; Sodium hydroxide CAS 1310-73-2;; Potassium Hydroxide CAS 1310-58-3;;

RI RTK: Potassium Hydroxide CAS 1310-58-3;;

Safe Drinking Water Act: No Known Hazard or Not Listed

Canada WHMIS Hazard Class: **No Known Hazard or Not Listed**

International Chemical Inventory Status:

Australia AICS	Japan ENCS	Korea ECL	Canada DSL
China IECSC	Europe EINECS	Phillipines PICCS	Canada NDSL
	Europe ELINCS		New Zealand Inv

REACH : All components are included in the REACH registry.

Other Regulations

Section 16- Other Information:

Revision Date	7/30/2021
Reasons For Revision	New Information From Supplier GHS
Sec 16 Other Info	**This Safety Data Sheet was prepared in good faith from the most recent information available, in accordance with ST/SG/AC.10/30/Rev.6. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.**