


SAFETY DATA SHEET

1. Product and Company Identification			
PRODUCT NUMBER:	173511	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	STEEL SHIELD PLUS	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Water-Based Stainless-Steel Cleaner	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification			
GHS CLASSIFICATION: Flam. Aerosol 1 H222 - Extremely flammable aerosol. Press. Gas H280 - Contains gas under pressure; may explode if heated. Skin Irrit. 2 H315 - Causes skin irritation. Eye Irrit. 2A H319 - Causes serious eye irritation. Repr. 1B H360 - May damage fertility or the unborn child. STOT SE 3 H336 - May cause drowsiness or dizziness. STOT RE 2 H373 - May cause damage to organs through prolonged or repeated exposure.	SIGNAL WORD: DANGER	SYMBOL:	
HAZARD STATEMENTS: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.			
PRECAUTIONARY STATEMENTS: Prevention: Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized Container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatment (see label). Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. Storage: Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.			

3. Composition / Information on Ingredients		
CHEMICAL CHARACTERIZATION: MIXTURES		
CHEMICAL DESCRIPTION: This product is a mixture of the substances listed below with non-hazardous additions.		
Chemical Name	CAS	Concentration % by Weight
Acetone	67-64-1	25-50%
propane	74-98-6	15-25%
Isobutyl Acetate	110-19-0	5-10%
n-butane	106-97-8	5-10%
butyl Acetate	123-86-4	5-10%
xylene (mix)	1330-20-7	≥5-<10%
stainless steel flake	65997-19-5	5-10%
Toluene	108-88-3	≥5-<10%
ethyl benzene	100-41-4	1-5%
Mineral Spirits	64742-47-8	1-5%

4. First Aid Measures
EMERGENCY OVERVIEW EYES: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. SKIN: Remove contaminated clothing. Wash exposed area with soap and water. INHALATION: Supply fresh air; consult doctor in case of complaints. INGESTION: Rinse mouth with water. Do not induce vomiting. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Dizziness. INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: No further relevant information available.

5. Fire-Fighting Measures**EXTINGUISHING AGENTS:**

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

SPECIAL HAZARDS:

Can form explosive gas-air mixtures.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

A respiratory protective device may be necessary.

6. Accidental Release Measures**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Dispose contaminated material as waste according to Section 13.

7. Handling and Storage**PRECAUTIONS FOR SAFE HANDLING:**

Use only in well ventilated areas.

STORAGE REQUIREMENTS:

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

8. Exposure Controls / Personal Protection**OCCUPATIONAL EXPOSURE LIMITS:**

Chemical Identity	Type	Exposure Limit Values
67-64-1 Acetone	PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
	REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
	TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm
		Long-term value: 594 mg/m ³ , 250 ppm
		BEI
74-98-6 Propane	PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
	REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
	TLV (USA)	refer to Appendix F in TLV's & BEI's book; D, EX
110-19-0 Isobutyl Acetate	PEL (USA)	Long-term value: 700 mg/m ³ , 150 ppm
	REL (USA)	Long-term value: 700 mg/m ³ , 150 ppm
	TLV (USA)	Short-term value: 712 mg/m ³ , 150 ppm
		Long-term value: 238 mg/m ³ , 50 ppm
106-97-8 n-butane	REL (USA)	Long-term value: 1900 mg/m ³ , 800 ppm
	TLV (USA)	Short-term value: 2370 mg/m ³ , 1000 ppm (EX)
123-86-4 butyl acetate	PEL (USA)	Long-term value: 710 mg/m ³ , 150 ppm
	REL (USA)	Short-term value: 950 mg/m ³ , 200 ppm
		Long-term value: 710 mg/m ³ , 150 ppm
	TLV (USA)	Short-term value: 712 mg/m ³ , 150 ppm
		Long-term value: 238 mg/m ³ , 50 ppm
1330-20-7 Xylene (mix)	PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
	REL (USA)	Short-term value: 655 mg/m ³ , 150 ppm
		Long-term value: 435 mg/m ³ , 100 ppm
	TLV (USA)	Short-term value: 651 mg/m ³ , 150 ppm
		Long-term value: 434 mg/m ³ , 100 ppm
		BEI
108-88-3 Toluene		Long-term value: 200 ppm
		Ceiling limit value: 300; 500* ppm
		*10-min peak per 8-hr shift
		Short-term value: 560 mg/m ³ , 150 ppm
		Long-term value: 375 mg/m ³ , 100 ppm
		Long-term value: 20 ppm
		BEI, NIC-OTO
100-41-4 Ethyl benzene	EL (USA)	Long-term value: 20 ppm
		IARC 2B
	PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
	REL (USA)	Short-term value: 545 mg/m ³ , 125 ppm
		Long-term value: 435 mg/m ³ , 100 ppm
	TLV (USA)	Long-term value: 87 mg/m ³ , 20 ppm
		BEI

BIOLOGICAL LIMIT VALUES:

Chemical Identity	Type	Exposure Limit Values
67-64-1 Acetone	BEI (USA)	50 mg/L
		Medium: urine
		Time: end of shift
		Parameter: Acetone (nonspecific)
1330-20-7 Xylene (mix)	BEI (USA)	1.5 g/g creatinine
		Medium: urine

		Time: end of shift
		Parameter: Methyl hippuric acids
100-41-4 Ethyl benzene	BEI (USA)	0.7 g/g creatinine
		Medium: urine
		Time: end of shift at end of workweek
		Parameter: Sum of mandelic acid and phenyl glyoxylic acid (nonspecific, semi-quantitative)
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		Medium: end-exhaled air
		Time: not critical
		Parameter: Ethyl benzene (semi-quantitative)

PERSONAL PROTECTIVE EQUIPMENT:



Eye Protection: Tightly sealed goggles

Hand Protection: Nitrile gloves. The glove material must be impermeable and resistant to the substance.

Respiratory Protection: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long-term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

General Hygiene Considerations: Immediately remove all soiled and contaminated clothing. Wash hands after use. Store protective clothing separately. Avoid contact with the eyes and skin. Do not eat or drink while working.

9. Physical & Chemical Properties

Appearance:	Aerosol.	Flammability(solid/gas):	Extremely flammable.
Odor:	Aromatic	Auto igniting:	Product is not self-igniting.
Odor Threshold:	Not determined.	Danger of explosion:	In use, may form flammable/explosive vapor-air mixture.
pH-value:	Not determined.	Explosive Limit-Lower (%):	1.7% Vol%
Melting Point/Range:	Undetermined.	Explosive Limit-Upper (%):	10.9 Vol%
Boiling Point/Range:	-44°C (-47.2°F)	Vapor Density:	Not determined.
Viscosity:	Not determined.	Vapor Pressure:	Not determined.
Flash Point:	-19°C (-2.2°F)	Relative Density:	Between 0.77 & 0.85 (Water equals 1.00)
Evaporation Rate:	Not applicable.	Solubility (water):	Not determined.
Decomposition temperate:	Not determined.	Partition Coeff(n-octanol/water):	Not determined.
		Water:	0.0%

10. Stability & Reactivity Information

REACTIVITY:

Stable at normal temperatures.

CHEMICAL STABILITY:

Not fully evaluated.

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

CONDITIONS TO AVOID:

Do not allow to exceed 120°F. Do not warehouse in subfreezing temperatures.

INCOMPATIBLE MATERIALS:

No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS:

No dangerous decomposition products known.

11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS: No data available.

Skin Effects: No irritant effect.

Eye Effects: Irritating effect.

Sensitization: No sensitizing effects known.

LD/LC50 values that are relevant for classification:

Chemical Identity	Type	Value	Source
110-19-0 Isobutyl Acetate	Oral	LD50	4,763 mg/kg (rbt)
123-86-4 Butyl acetate	Oral	LD50	14,000 mg/kg (rat)
	Inhalative	LC50/4 h	>21 mg/l (rat)
1330-20-7 Xylene (mix)	Oral	LD50	8,700 mg/kg (rat)
	Dermal	LD50	2,000 mg/kg (rbt)
	Inhalative	LC50/4 h	6,350 mg/l (rat)
100-41-4 Ethyl benzene	Oral	LD50	3,500 mg/kg (rat)
	Dermal	LD50	17,800 mg/kg (rbt)

12. Ecological Information

AQUATIC TOXICITY:

Hazardous for water, do not empty into drains.

PERSISTENCE AND DEGRADABILITY:

The product is degradable after prolonged exposure to natural weathering processes.

BIOACCUMULATIVE POTENTIAL:

No further relevant information available.

MOBILITY IN SOIL:

No further relevant information available.

OTHER ADVERSE EFFECTS:

No further relevant information available.

OTHER INFORMATION:

This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium), or chlorinated solvents.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

RECOMMENDATION:

Completely empty cans should be recycled.

RECOMMENDED CLEANSING AGENT:

Water, if necessary with cleansing agents.

14. Transportation Information

DOT: UN Number: UN1950

DOT: UN1950

DOT: Aerosols, flammable

ADR: 1950 Aerosols

Transport hazards class(es):

Class: 2.1

Special precautions for user:

Warning: Gases

EMS Number: F-D, S-U

Packaging Group: --

UN "Model Regulation": UN 1950 AEROSOLS, 2.1

Trade Name: STAINLESS STEEL

15. Regulatory Information**SARA SECTION 355 (Extremely hazardous substances):**

None of the ingredients in this product are listed.

SARA SECTION 313 (Specific toxic chemical listings):

1330-20-7	xylene (mix)
108-88-3	Toulene
100-41-4	ethyl benzene

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All hazardous ingredients are found on the inventory list of substances.

CANADIAN DOMESTIC SUBSTANCES LIST (DSL):

All ingredients are listed or exempted.

CONSUMER PRODUCT SAFETY COMISSION (CPSC):

This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

CALIFORNIA PROPOSITION 65 CHEMICAL KNOWN TO CAUSE CANCER:

100-41-4	ethyl benzene
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PROP 65 CHEMICALS KNOWN TO CAUSE BIRTH DEFECTS OR REPRODUCTIVE HARM:

108-88-3	Toluene
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EPA:

67-64-1	Acetone
110-19-0	Isobutyl Acetate
1330-20-7	xylene (mix)
100-41-4	ethyl benzene

USDA (UNITED STATES DEPARTMENT OF AGRICULTURE):

Category 21: This product was manufactured to conform to the USDA Food Safety and Inspection Service performance standards. These standards include, but are not limited to, the ability of this product to be safe for use in official meat and poultry establishments, and to perform well under a daily regimen of thorough cleaning, cyclical temperature change, and wet conditions. This product may be used where there is a possibility of incidental food contact.

16. Other Information**DISCLAIMER:**

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.