

### STARSHINE STAINLESS STEEL CLEANER & POLISH

#### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: StarShine Stainless Steel Cleaner & Polish  
 Product Type: aerosol cleaner and polish

Product Number: 319A12

**Manufacturer Address:**

Amano Pioneer Eclipse Corporation  
 P.O. Box 909  
 1 Eclipse Road  
 Sparta, NC 28675

**Contact Information:**

Telephone: 1-336-372-8080  
 Email: msds@pioneer-eclipse.com  
 Internet: www.pioneer-eclipse.com

**FOR CHEMICAL EMERGENCY:** Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night. Within USA and Canada 1-800-424-9300. Outside USA and Canada +1 703 527 3887 (collect calls accepted)

#### 2: HAZARDS IDENTIFICATION

**OSHA status:** Hazardous

**Precautions:** DANGER. Extremely flammable. Contents under pressure. Harmful or fatal if swallowed. Aspiration hazard if swallowed. Vapor harmful. Keep away from heat and flame. Can cause nervous system depression. Keep out of reach of children.

**Potential Health Effects:**

**Eye Contact:** May cause mild irritation. Symptoms include stinging, tearing and redness.  
**Skin Contact:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying of skin and skin burns.

**Inhalation:** High vapor/aerosol concentrations (>1000 ppm) are irritating to the eyes and respiratory tract. May cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage.

**Ingestion:** Harmful or fatal if swallowed. Aspiration hazard- this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.



#### 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight %
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	< 41
d-Limonene	5989-27-5	< 24
Distillates (petroleum), hydrotreated light	64742-47-8	< 16
Butane (propellant blend)	106-97-8	6.3
Propane (propellant blend)	74-98-6	18.5

#### 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention..

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Seek medical attention immediately. Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Do not leave individual unattended.

#### 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry chemical, CO<sub>2</sub> or foam is recommended

**Special Fire Fighting Procedures:** EXTREMELY FLAMMABLE. Contents under pressure. Cool exposed containers with water spray to prevent bursting. SCBA should be used whenever chemical fires are present.

**Hazardous Combustible Products:** CO, CO<sub>2</sub>

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#### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Put on personal protective equipment (see Section 8).

**Environmental Precautions:** Keep spills and cleaning run-off out of sewers and open bodies of water. Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Disperse vapors with water spray.

**Containment and Clean-Up:** Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

#### 7: HANDLING AND STORAGE

**Handling:** Do not use near heat, sparks or open flame. Exposure to temperatures above 120 °F may cause bursting. Do not puncture or incinerate container. Do not get in eyes, on skin or on clothing.

**Storage:** Store in a cool, dry place. Do not store near heat sparks or open flame.

**Other information:** Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Keep out of reach of children.

#### 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure Limit Values

Ingredient	CAS Number	ACGIH		OSHA	
		TWA	STEL	TWA	STEL
Propane	64742-47-8	1000 ppm	N/L	1000 ppm	N/L
n-Butane	106-97-8	1000 ppm	N/L	1000 ppm	N/L

**Engineering Controls:** Good general ventilation required.

##### Personal Protective Equipment (PPE)

**Eye/Face Protection:** Wear safety glasses or goggles.

**Skin Protection:** To prevent repeated or prolonged contact, wear impervious gloves (rubber, nitrile or neoprene).

**Respiratory Protection:** When respiratory protection is required use an organic vapor cartridge.

#### 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** clear, colorless spray/mist (aerosol)

**Odor:** citrus odor

**Odor Threshold:** N/E

**pH:** N/A

**Freezing Point:** N/A

**Boiling Point:** N/A

**Flash Point:** 120 °F (TCC method)

**Evaporation Rate:** N/E

**Flammability:** N/E

**Upper/Lower Flammability limits:** N/E

**Vapor Pressure:** N/E

**Vapor Density:** N/E

**Relative Density:** 7.1 lb/gal @ 68°F/ 0.85 kg/L @ 20° C

**Solubility:** negligible in water

**Partition Coefficient (n-octanol/water):** N/E

**Auto Ignition temperature:** N/E

**Decomposition Temperature:** N/E

**Viscosity:** N/E

#### 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Hazardous reactions:** None expected

**Conditions to avoid:** High temperature

**Incompatible materials:** Acids and strong oxidizers

**Hazardous decomposition products:** CO, CO<sub>2</sub>

#### 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Not determined on product.

Ingredient	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC <sub>50</sub> Inhalation-Rat	Carcinogenicity	CA - Prop 65
Distillates (petroleum), hydrotreated heavy naphthenic	> 5000	> 2000	2.18 mg/L/4hr	N/L	N/L
d-Limonene	4400	> 5000	N/A	N/L	N/L
Distillates (petroleum), hydrotreated light	N/A	N/A	N/A	N/L	N/L
Butane (propellant blend)	N/A	N/A	658 g/m <sup>3</sup> /4hr	N/L	N/L
Propane (propellant blend)	N/A	N/A	>800000 ppm	N/L	N/L

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#### LOCAL EFFECTS

**Skin contact:** May cause skin irritation  
**Eye contact:** May cause eye irritation  
**Sensitization:** None expected  
**Chronic effects:** None expected

#### SPECIFIC EFFECTS

**Carcinogenicity:** None known  
**Reproductive effects:** None known  
**Teratogenicity:** None known  
**Mutagenicity:** None known

#### 12: ECOLOGICAL INFORMATION

Ecological data not available.

#### 13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

#### 14: TRANSPORT INFORMATION

**Proper Shipping Name:** Aerosols, flammable (each not exceeding 1L capacity)      **Hazard Class:** 2.1  
**UN Number:** UN1950      **Packing Group:** N/A

\*\*Note: Product is shipped under Limited Quantity exception, based on Hazard Class and package volume.\*\*

#### 15: REGULATORY INFORMATION

##### U.S. Regulations/Reporting:

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
Butane (propellant blend)	106-97-8	hazardous	N/L	N/L
Propane (propellant blend)	74-98-6	hazardous	N/L	N/L

##### State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
Butane (propellant blend)	106-97-8	Listed	Listed	Listed	Listed
Propane (propellant blend)	74-98-6	Listed	Listed	Listed	Listed

##### Canada Regulations/Reporting

##### WHMIS Hazard Symbol:



**WHMIS hazard class:** A, B5, D2B

##### Ingredients required for disclosure:

Ingredient	CAS Number	Weight %	Classification
d-Limonene	5989-27-5	>1%	B3, D2B
Butane (propellant blend)	106-97-8	>1%	A, B1
Propane (propellant blend)	74-98-6	>1%	A, B1

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all of the information required by the *CPR*.

#### 16: OTHER INFORMATION

Product intended for COMMERCIAL AND INDUSTRIAL USE ONLY.

##### Abbreviations Used:

N/E - Not Established

N/A - Not available

N/L - Not Listed

##### Revision History:

07/28/2011- format change to ANSI Z400.1-2004

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This MSDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

**\*\*IMPORTANT SAFETY INFORMATION\*\*DO NOT DISCARD\*\*PLEASE ROUTE TO COMPANY SAFETY OFFICER\*\***