

### STARSHINE STAINLESS STEEL CLEANER & POLISH

#### I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** StarShine Stainless Steel Cleaner & Polish **Product Number:** 319A12  
**Product Use:** Oil based aerosol stainless steel cleaner & polish

**Manufacturer Address:**

Amano Pioneer Eclipse Corp.  
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 1 Eclipse Road  
 Sparta, NC 28675 USA

**Contact Information:**

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**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

This preparation has been classified and labeled according to 1999/45/EC.

**EU Classification:** Classified as Harmful, Irritant, Sensitising, Highly Flammable, Dangerous for the Environment

**Danger symbol:**



**Risk phrases:** **R11-** Highly Flammable  
**R38-** Irritating to skin.  
**R43-** May cause sensitisation by skin contact.  
**R65-** Harmful: may cause lung damage if swallowed.  
**R51/53-** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains d-Limonene. May produce an allergic reaction

**Safety phrases:** **S2-** Keep out of the reach of children.  
**S16-** Keep away from sources of ignition - No smoking.  
**S23-** Do not breathe fumes/vapour/spray.  
**S51-** Use only in well-ventilated areas.  
**S60-** This material and its container must be disposed of as hazardous waste.  
**S62-** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous Ingredients	EC No.	Weight %	CAS No.	Symbol	R-phrases *
Distillates (petroleum), hydrotreated heavy naphthenic	265-155-0	< 41	64742-52-5	T (Toxic)	R45 †
d-Limonene	227-813-5	< 24	5989-27-5	Xi (Irritant) N (Dangerous for the Environment)	R10, R38, R43, R50/53
Distillates (petroleum), hydrotreated light	265-149-8	< 16	64742-47-8	Xn (Harmful)	R65
Butane/Propane (Propellant Blend)	203-448-7/ 200-827-9	6.3/18.5	106-97-8/ 74-98-6	F+ (Extremely Flammable)	R12

\* See section 16 for the full text of R-phrases

† See section 16 for explanatory note

#### 4. FIRST AID MEASURES

##### EFFECTS AND SYMPTOMS

**Inhalation:** 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.

**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.

**Eye contact:** May cause mild irritation. Symptoms include stinging, tearing and redness.

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#### FIRST AID MEASURES

**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,

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

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

#### 5. FIRE FIGHTING MEASURES

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

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

**Special fire fighting procedures:** HIGHLY FLAMMABLE. Contents under pressure. Cool exposed containers with water spray to prevent bursting. SCBA should be used whenever chemical fires are present.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Environmental Precautions:** Keep spills and cleaning run-off out of sewers and open bodies of water.

**Containment and Clean-Up:** Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Disperse vapors with water spray. 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 49°C may cause bursting. Do not puncture or incinerate container. Do not get in eyes, 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 the reach of children.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

##### Exposure limits:

Component Name:	Source / Date	Value / Units	Type
Propane	US-ACGIH/ 2010	1000 ppm	TWA
	US-OSHA/ 2010	1000 ppm	TWA
n-Butane	US-ACGIH/ 2010	1000 ppm	TWA
	US-OSHA/ 2010	1000 ppm	TWA

**Exposure controls:** Good general ventilation is required.

##### PERSONAL PROTECTION

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

**Skin protection:** Impervious gloves (rubber, nitrile or neoprene) recommended

**Eye protection:** Safety glasses/goggles recommended

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Odor threshold:** N/E

**Melting point/Freezing Point:** N/A

**Flash point:** 49 °C

**Upper/lower flammability/explosive limits:** N/E

**Vapor density:** N/E

**Solubility:** negligible in water

**Auto-ignition temperature:** N/E

**Viscosity:** N/E

**Oxidizing properties:** N/E

**Odor:** citrus odor

**pH:** N/A

**Initial boiling point/boiling range:** N/A

**Evaporation Rate:** N/E

**Vapor pressure:** N/E

**Relative density:** 0.85 kg/L @ 20°

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

**Decomposition temperature:** N/E

**Explosive Properties:** N/E

**Flame extension:** > 45 cm

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**10. STABILITY AND REACTIVITY**

**Chemical stability:** Stable under normal conditions.

**Hazardous Reactions:** None expected

**Conditions to avoid:** High temperatures

**Incompatible materials:** Acids and strong oxidizers

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

**11. TOXICOLOGICAL INFORMATION**

**PREPARATION SUMMARY** - Toxicity testing has not been completed on the mixture.

**LOCAL EFFECTS**

**Skin contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Sensitization:** May cause sensitisation.

**Chronic effects:** None known

**SPECIFIC EFFECTS**

**Carcinogenicity:** None known

**Reproductive effects:** None known

**Teratogenicity:** None known

**Mutagenicity:** None known

**COMPONENT SUMMARY \***

Distillates (petroleum), hydrotreated heavy naphthenic CAS# 64742-52-5

LD<sub>50</sub>: (oral, rat) >5000 mg/kg

Potential Health Effects

Eye: Not expected to cause eye irritation.

Skin: Contact may cause mild skin irritation.

Ingestion: Not expected to occur; may cause mild irritation.

Inhalation: No significant health hazard for short-term exposure

Chronic: Repeated or prolonged exposure may cause irritation.

Carcinogenicity: Not listed as a carcinogen.

d- Limonene CAS# 5989-27-5

LD<sub>50</sub>: (oral, rat) 4400 mg/kg

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: May cause digestive tract disturbances.

Inhalation: May cause respiratory tract irritation.

Chronic: No data available.

Carcinogenicity: Not listed as a carcinogen.

Distillates (petroleum), hydrotreated light CAS# 64742-47-8

LD<sub>50</sub>: (oral, rat) N/A

Potential Health Effects

Eye: May cause eye irritation and possible burns.

Skin: May cause skin irritation. May be absorbed through the skin.

Ingestion: Aspiration hazard. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Inhalation of high concentrations may cause central nervous effects.

Chronic: Prolonged or repeated exposure may cause nausea, dizziness and headache.

Carcinogenicity: Not listed as a carcinogen.

Butane CAS# 106-97-8

LD<sub>50</sub>: (oral, rat) N/A

Potential Health Effects

Eye: No known significant effects or critical hazards.

Skin: No known significant effects or critical hazards.

Ingestion: Ingestion is not a normal route of exposure for gases.

Inhalation: Acts as a simple asphyxiant.

Chronic: Acute or chronic respiratory conditions may be aggravated by overexposure to this gas.

Carcinogenicity: Not listed as a carcinogen.

Propane CAS# 74-98-6

LD<sub>50</sub>: (oral, rat) N/A

Potential Health Effects

Eye: Contact with rapidly expanding gas may cause burns or frostbite.

Skin: Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion: Ingestion is not a normal route of exposure for gases.

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Inhalation: Acts as a simple asphyxiant.

Chronic: Pre-existing disorders of the nervous system, heart and central nervous system may be aggravated by over-exposure.

Carcinogenicity: Not listed as a carcinogen.

\*Component data recorded from available sources pertaining to individual component CAS number.

**12. ECOLOGICAL INFORMATION**

**PREPARATION SUMMARY** - Ecological testing has not been completed on the mixture.

**COMPONENT SUMMARY \***

Distillates (petroleum), hydrotreated heavy naphthenic CAS# 64742-52-5

LC50, > 5000 mg/L *Pimephales promelas* (96 hr)

LC50, 1000 mg/L *Daphnia magna* (48 hr)

Environmental Fate: N/A

d- Limonene CAS# 5989-27-5

LC50, 96 hr fathead minnow 702 mg/l (flow-through)

Environmental Fate: May cause long-term adverse effects on the environment.

Distillates (petroleum), hydrotreated light CAS# 64742-47-8

Environmental Fate: This material is expected to be rapidly biodegradable. This substance is harmful to aquatic organisms.

Butane CAS# 106-97-8

Environmental Fate: No known significant effects or critical hazards.

Propane CAS# 74-98-6

Environmental Fate: Low bioaccumulation potential.

\*Component data recorded from available sources pertaining to individual component CAS number.

**13. DISPOSAL CONSIDERATIONS**

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

**14. TRANSPORT INFORMATION**
**INTERNATIONAL TRANSPORTATION REGULATIONS:**

**UN number:** UN1950

**Packing Group:** N/A

\*\*This product is shipped under Limited Quantity Exception, based on hazard class and package volume. \*\*

LAND-ROAD/RAILWAY

**Proper shipping name:** Aerosols

**ADR/RID class:** 2

**ADR/RID item number:** none

SEA

**Proper shipping name:** Aerosols

**IMDG class:** 2

**Medical First Aid Guide (MFAG):** 380

**Emergency Schedules (EmS):** Fire F-D, Spillage S-U

**Marine Pollutant:** None

**15. REGULATORY INFORMATION**

**EINECS Status:** Ingredients are included in the EINECS/ELINCS/NLP inventories.

**NATIONAL REGULATIONS:** No additional national regulations are known to the supplier.

**16. OTHER INFORMATION**

Product intended for COMMERCIAL AND INDUSTRIAL USE ONLY.

†Note on dangerous component - Distillates (petroleum), hydrotreated heavy naphthenic (EC# 265-155-0, CAS# 64742-52-5) – The polycyclic aromatic content of this component is 1.8% via IP346 method; therefore carcinogenic classification need not apply.

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**Detergent/Cleaner Labelling (EC/648/2004):**

(≥ 15% - <30%) d-Limonene (allergenic fragrance)  
(>30%) aliphatic hydrocarbons

**Risk phrases:**

**R10-** Flammable.

**R11-** Highly Flammable.

**R12-** Extremely Flammable.

**R38-** Irritating to skin.

**R43-** May cause sensitisation by skin contact.

**R45-** May cause cancer.

**R65-** Harmful: may cause lung damage if swallowed.

**R51/53-** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

**S2-** Keep out of the reach of children.

**S9-** Keep container in a well-ventilated place.

**S16-** Keep away from sources of ignition - No smoking.

**S23-** Do not breathe fumes/vapour/spray.

**S24-** Avoid contact with skin.

**S37-** Wear suitable gloves.

**S45-** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)

**S51-** Use only in well-ventilated areas.

**S60-** This material and its container must be disposed of as hazardous waste.

**S61-** Avoid release to the environment. Refer to special instructions/safety data sheet.

**S62-** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**Abbreviations:**

N/A = Not Applicable

N/E = Not Established

N/L = Not Listed

**Issued by:**

Chemical/R&D Department

Amano Pioneer Eclipse Corporation

**Revision Information:**

08/01/2011 – revisions conforming to 1907/2006/EC amendment 453/2010