

## PRODUCT NAME: STARSHINE STAINLESS STEEL CLEANER & POLISH

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

<b>PRODUCT NAME</b>	: StarShine Stainless Steel Cleaner & Polish	Product Number: 319
<b>PRODUCT USE</b>	: Oil based aerosol stainless steel cleaner & polish	
<b>MANUFACTURER</b>	: Pioneer Eclipse Corp.	
<b>P.O.BOX</b>	: 909	
<b>ADDRESS</b>	: 1 Eclipse Road, Sparta, North Carolina, 28675, USA	
<b>PHONE</b>	: +1 336 372 8080	

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation:** Preparation

#### INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R phrases *
Butane	203-448-7		106-97-8	F+ (extremely flammable) T (Toxic)	R12, R45, R46
Propane	200-827-9		74-98-6	F+ (extremely flammable)	R12
Aliphatic Hydrocarbon	265-149-8	<16%	64742-47-8	Xn (Harmful)	R65
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	265-155-0	<41%	64742-52-5	T (Toxic)	R45
Limonene	227-813-5	<24%	5989-27-5	Xi (irritant) N (Dangerous for the environment)	R10, R38, R43, R50-53

\*see section 16 for the full text of relevant R phrases

### 3. HAZARDS IDENTIFICATION

**Physical/chemical hazards:** Extremely Flammable.  
**Human health hazards:** Carcinogen- Category 1 and 2. Mutagen- Category 2. Harmful and may cause lung damage or death if swallowed.  
**Environmental hazards:** Dangerous for the Environment.

### 4. FIRST AID MEASURES

#### EFFECTS AND SYMPTOMS

**Inhalation:** High vapor/aerosol concentrations are irritating to the respiratory tract. Can cause nervous system depression or death.  
**Ingestion:** Harmful or fatal if swallowed.  
**Skin contact:** May be mildly irritating  
**Eye contact:** May be mildly irritating

#### FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
**Ingestion:** Do not induce vomiting. Aspiration hazard: do not give anything by mouth because material can enter lungs and cause severe lung damage.



# MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 26/09/2005

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**Skin contact:** Immediately wash off with plenty of water. If irritation develops, get medical attention.

**Eye contact:** Immediately wash out with water. If irritation develops, get medical attention.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Dry chemical, water spray, foam, carbon dioxide

**Hazardous combustion products:** Carbon monoxide

**Unusual fire and explosion hazards:** Aerosol product – Containers may rocket or explode in heat of fire.

**Special fire fighting procedures:** Fight fire from protected location or maximum distance possible. In case of fire and/or explosion, do not breathe fumes. Extremely 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

**Small spills:** Absorb spill on inert material (e.g. sand, earth) and dispose off as waste material in accordance with national and regional provisions.

**Large spills:** Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes

**Storage:** Do not use or store near heat. Temperatures greater than 120°F may cause bursting. Keep from freezing. Keep out of reach of children. Keep away from heat and direct sunlight.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

#### Exposure limit values:

Component Name:	Source / Date	Value / Units	Type	Carcinogenic Listing*
Propane	US(OSHA) 2005	1000 ppm	8 HRS / TWA	N/L
Butane/propane propellant mixture	US(ACGIH) 2005	1000 ppm	8 HRS / TWA	N/L

\*1 = OSHA, 2 = IARC, 3 = NTP, 4 = Others, N/L = Not Listed

**Exposure controls:** No special ventilation requirements. Ensure adequate general ventilation.

#### OCCUPATIONAL EXPOSURE CONTROLS

**Respiratory protection:** When required, use an organic vapor cartridge.

**Hand protection:** Rubber gloves recommended.

**Eye protection:** Safety glasses recommended.

**Skin protection:** If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

**Environmental exposure controls:** No specific environmental exposure controls required.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES of CONTENTS

#### GENERAL INFORMATION

**Appearance:** Aerosol

**Odour:** Slight orange fragrance

#### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**pH:** Not available

**Flash point:** 120 F

**Oxidizing properties:** Not an oxidizer

**Relative density:** 0.80 kg/l @ 20°C

**Partition coefficient (n-octanol/water):** Not determined

**Vapour density:** Greater than air

**Other information:** N/A

**Boiling point/boiling range:** Not available

**Explosive properties:** None

**Vapour pressure:** Less than water

**Solubility:** not soluble in water

**Viscosity:** Not determined

**Evaporation rate:** Less than water

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** High temperatures

**Materials to avoid:** Acids and strong oxidizers

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

### 11. TOXICOLOGICAL INFORMATION

#### Component Summary

##### Severely Hydrotreated Heavy Naphthenic Petroleum Oil

LD<sub>50</sub>: (Oral) rat >5 mg/kg

#### **Potential Health Effects**

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation.

**Ingestion:** Slightly toxic if swallowed.

**Inhalation:** Vapour may irritate respiratory system or lungs.

**Chronic:** May cause drying, defatting and dermatitis of skin.

**CARCINOGENICITY:** Not expected to occur.

##### Aliphatic Hydrocarbon

LD<sub>50</sub>: (Oral) rat >5 g/kg

#### **Potential Health Effects**

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation.

**Ingestion:** Harmful if swallowed. May cause lung damage.

**Inhalation:** Vapour may irritate respiratory system or lungs.

**Chronic:** May cause drying, defatting and dermatitis of skin.

**CARCINOGENICITY:** Not expected to occur.

##### Limonene

LD<sub>50</sub> oral (Rat) >5000 mg/kg; acute dermal LD<sub>50</sub> (rabbit) >5000 mg/kg

#### **Potential Health Effects**

**Eye:** Causes eye irritation. Causes redness and pain.

**Skin:** Causes skin irritation. Causes redness and pain.

**Ingestion:** Harmful if swallowed.

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**Inhalation:** May cause nose, throat and respiratory tract irritation.

**Chronic:** May cause drying, defatting and dermatitis of skin.

**CARCINOGENICITY:** Not expected to occur.

**PREPARATION SUMMARY**

**Acute Toxicity:** LD<sub>50</sub> estimated to be greater than 2000 mg/kg

**LOCAL EFFECTS**

**Skin contact:** Irritating to skin upon repeated or prolonged contact.

**Eye contact:** Slightly irritating

**Sensitization:** None known

**Chronic effects:** None known

**SPECIFIC EFFECTS**

**Carcinogenicity:** None known

**Reproductive effects:** None known

**Teratogenicity:** None known

**Mutagenicity:** None known

**12. ECOLOGICAL INFORMATION****Component Summary**

Propane: not available

Severely Hydrotreated Heavy Naphthenic Petroleum Oil: not available

Aliphatic Hydrocarbon: not available

Limonene

96 hour LC50 fathead minnow: 702 mg/l (flow-through)

Butane

The aquatic 96 hr TLM is > 1000 ppm.

**PREPARATION SUMMARY**

**Ecotoxicity:** This material is highly soluble in water. Limited toxicity tests and models indicate this material should exhibit low toxicity to aquatic organisms.

**Environmental fate:** This material will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.

**Bioaccumulation:** Because of this material's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil. On the basis of available information, this material/preparation is not expected to produce any significant adverse environmental effects, when used as directed.

**13. DISPOSAL**

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

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

This product is not classified for transportation under ADR/IMDG regulations.

**UN number:** UN 1950

**Packing group:** not applicable

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### LAND-ROAD/RAILWAY

**Proper shipping name:** Limited Quantity of 1950 aerosols  
**ADR/RID class:** 2  
**ADR/RID item number:** none

### SEA

**Proper shipping name:** Limited Quantity of 1950 aerosols  
**IMDG class:** 2.1

**Medical First Aid Guide (MFAG):** 380  
**Emergency Schedules (EmS):** Fire F-D, Spillage S-U  
**Marine Pollutant:** none

## 15. REGULATORY INFORMATION

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

### EU REGULATIONS

**EU Classification:**



**EU Classification:** Extremely Flammable, Dangerous for the environment and Toxic (67/548/EEC-88/379/EEC).

**Risk phrases:** See section 16.

**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 vapor.  
 S24-Avoid contact with skin.  
 S37-Wear suitable gloves.  
 S45-In case of accident or if you feel unwell, seek medical advice immediately.  
 S60-This material and its container must be disposed of as hazardous waste.  
 S61-Avoid release to the environment.  
 S62-If swallowed, do not induce vomiting: seek medical advice immediately.

**EINECS Status:** All ingredients are included in the EINECS inventories.

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

## 16. OTHER INFORMATION

### Relevant R phrases:

R10-Flammable.  
 R12- Extremely flammable.  
 R38-Irritating to the skin.

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R43-May cause sensitization by skin contact.

R45-May cause cancer.

R46-May cause heritable genetic damage.

R50/53-Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65-Harmful, may cause lung damage if swallowed.

### **Detergent/Cleaner Labeling (89/542/EEC):**

(>30%) Aliphatic Hydrocarbons and (>.01%-<30%) Limonene-allergenic fragrance

### **Issued by:**

Genie G Bost, Regulatory Affairs Manager

### **Revision information:**

26/09/2005, revision conforming to 648/2004/EC