

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

**Product Name:** Radiance® Floor Finish  
**Product Use:** Floor polish

**Product Number:** 119

**Manufacturer Address:**  
 Amano Pioneer Eclipse Corp.  
 P.O. Box 909  
 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:** Not classified as dangerous  
**Hazard symbol:** None  
**Risk phrases:** None  
**Safety phrases:** None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous Ingredients	EC No.	Weight %	CAS No.	Symbol	R-phrases *
ammonium hydroxide	215-647-6	0.1 – 1.5	1336-21-6	C (Corrosive) Xi (Irritant) N (Dangerous for the Environment)	R34 R36/37/38 R50

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

## 4. FIRST AID MEASURES

This preparation is not expected to produce significant adverse health effects, when recommended use instructions are followed.

### EFFECTS AND SYMPTOMS

**Inhalation:** None expected under normal use.  
**Ingestion:** None expected under normal use.  
**Skin contact:** None expected under normal use.  
**Eye contact:** None expected under normal use.

### FIRST AID MEASURES

**Inhalation:** If breathing is difficult, remove to fresh air. If symptoms persist, seek medical attention  
**Ingestion:** If ingested, do not induce vomiting. Seek medical attention.  
**Skin contact:** Wash off with plenty of water. If irritation develops, seek medical attention.  
**Eye contact:** Rinse with plenty of water. If irritation develops, seek medical attention.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Dry chemical, water spray, foam, carbon dioxide  
**Hazardous combustion products:** None  
**Unusual fire and explosion hazards:** Materials can splatter above 100°C/212°F.  
**Special fire fighting procedures:** No special fire fighting procedures recommended.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Small spills:** Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.  
**Large spills:** Keep spectators away. Floors may be slippery; use care to avoid falling. Neutralize spill area. 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 eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapours or spray mists. Remove and wash contaminated clothing and footwear before re-use.  
**Storage:** Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure limit values:** None  
**Exposure controls:** Ensure adequate general ventilation.  
**Environmental exposure controls:** No specific environmental exposure controls required.

### PERSONAL PROTECTION

**Respiratory protection:** No specific personal protection is required.  
**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance :</b> Thin, milky white, opaque liquid	<b>Odor:</b> slight ammonia
<b>Odor threshold:</b> N/E	<b>pH:</b> 8.7 ± 0.5
<b>Melting point/Freezing Point:</b> N/A	<b>Initial boiling point/boiling range:</b> 100°C
<b>Flash point:</b> None	<b>Evaporation Rate:</b> less than water
<b>Upper/lower flammability/explosive limits:</b> N/A	<b>Vapor pressure:</b> less than water
<b>Vapor density:</b> Greater than air	<b>Relative density:</b> 1.04 kg/l @ 20°C
<b>Solubility:</b> 100% soluble in water	<b>Partition coefficient (n-octanol/water):</b> N/E
<b>Auto-ignition temperature:</b> N/A	<b>Decomposition temperature:</b> N/E
<b>Viscosity:</b> <10 centipoise @ 20°C	<b>Explosive Properties:</b> N/A
<b>Oxidizing properties:</b> Not an oxidizer	<b>Other information:</b> forms a clear film upon drying

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions.  
**Hazardous Reactions:** None known  
**Conditions to avoid:** None known  
**Incompatible materials:** Strong acids and bases  
**Hazardous decomposition products:** None known

## 11. TOXICOLOGICAL INFORMATION

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

### LOCAL EFFECTS

**Skin contact:** None expected  
**Eye Contact:** None expected  
**Sensitization:** None expected  
**Chronic effects:** None expected

### SPECIFIC EFFECTS

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

### COMPONENT SUMMARY \*

ammonium hydroxide CAS# 1336-21-6

**LD<sub>50</sub>:** (oral, rat) 350 mg/kg

#### Potential Health Effects

**Eye:** Vapors cause irritation.

**Skin:** Causes irritation and burns to the skin.

**Ingestion:** May cause corrosion to the esophagus and stomach.

**Inhalation:** Vapors and mists cause irritation to the respiratory tract.

**Chronic:** Repeat exposure may cause damage to the mucous membranes, respiratory tract, eyes and skin.

**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 \*

ammonium hydroxide CAS# 1336-21-6

LC50, 96 hr fathead minnow 8.2 mg/l

EC50 48 hr Daphnia magna 0.66 mg/l

Environmental Fate: Not expected to bioaccumulate.

\*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

Not regulated for transport.

## 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

### Relevant R (Risk) phrases:

R34- Causes burns.

R36/37/38- Irritating to eyes, respiratory system and skin.

R50- Very toxic to aquatic organisms.

### Relevant S (Safety) phrases:

S1/2- Keep locked up and out of the reach of children.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39- Wear suitable gloves and eye/face protection.

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

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

### 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:

04/01/2011 – revision conforming to 1907/2006/EC amendment 453/2010, revision to Section 3 & 9 (pH, density & viscosity)

01/11/2010 – revision conforming to 1907/2006/EC