



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2015/830

PIO109
PIO109FS

Issued: June 7, 2016
Supersedes: May 8, 2015

DAY-STAR™

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product Name: DayStar Ultra High Speed Floor Coating

Product Number: 109

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Floor finish

Uses Advised Against: Other than per labelled instructions.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer:

Amano Pioneer Eclipse Corporation

P.O. Box 909

1 Eclipse Road

Sparta, NC 28675

Telephone: 1-336-372-8080

Email: sds@pioneereclipse.com

Internet: www.pioneereclipse.com

1.4 EMERGENCY TELEPHONE NUMBER

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

This mixture has been classified according to EC 1272/2008.

Not classified as hazardous.

2.2 LABEL ELEMENTS

Signal Word: None

Hazard pictogram(s): None

Hazard Statement(s): None

Precautionary Statement(s): None

2.3 OTHER HAZARDS

No other hazards are known to the supplier

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

| Ingredient | EC No. | Weight % | CAS No. | CLP Classification | |
|--------------------|-----------|-----------|-----------|-------------------------------|----------------------|
| | | | | Hazard Class | Hazard Statement(s)* |
| ammonium hydroxide | 215-647-6 | 0.1 – 1.0 | 1336-21-6 | Skin Corr 1B AquaticAcute1 | H314 H400 |

*See section 16 for the full text of Hazard Statements

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye Contact: Rinse with plenty of water. If irritation develops and persists, seek medical attention.

Skin Contact: Wash with plenty of water. If irritation develops and persists, seek medical attention.

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.



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4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

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

Eye Contact: None expected under normal use.

Skin Contact: None expected under normal use.

Inhalation: None expected under normal use.

Ingestion: None expected under normal use.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information available.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

In case of fire: use dry chemical, water spray, foam, carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: CO, CO₂

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but not limited to the above mentioned substances.

5.3 ADVICE FOR FIRE FIGHTERS

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection. Fire-fighters should wear clothing conforming to EN469 for chemical incidents. Materials can splatter above 100°C/212°F.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Refer to Section 8 for appropriate personal protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep spills and cleaning runoff out of sewers and open bodies of water.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

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.

6.4 REFERENCE TO OTHER SECTIONS: Refer to Section 8 of the SDS.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes and skin. Wash thoroughly after handling. Use in well-ventilated areas.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

7.3 SPECIFIC END USE(S): No information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Components do not have established work exposure limits.



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8.2 EXPOSURE CONTROLS

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Environmental exposure controls: No specific environmental exposure controls known.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists. Safety glasses or goggles (EN166).

Hand Protection: Chemical resistant gloves are recommended. (EN374).
Protective gloves should be selected according to the application and duration of use. Workplace selection should take into consideration handling requirements, physical requirements and exposure to other substances.

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

Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator with multi-purpose combination filter. (E.g. - EN 14387- ABEK)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance: | thin, milky white, opaque liquid |
| Odor: | slight ammonia |
| Odor Threshold: | No test data available |
| pH: | 8.7 [Method: ASTM E 70] |
| Freezing Point: | No test data available |
| Initial boiling point/boiling range: | No test data available |
| Flash Point: | > 93°C [Method: Closed cup, ASTM D 56] |
| Evaporation Rate: | No test data available |
| Flammability (solid, gas) | Not applicable to liquids |
| Upper/lower flammability/explosive limits: | No test data available |
| Vapor Pressure: | No test data available |
| Vapor Density: | No test data available |
| Relative Density: | 1.03 kg/L @ 20°C [Method: Pycnometer, ASTM D 1475] |
| Solubility: | miscible in water |
| Partition Coefficient (n-octanol/water): | No test data available |
| Auto Ignition temperature: | No test data available |
| Decomposition Temperature: | No test data available |
| Viscosity: | <10 centipoise @ 20°C [Method: Rotational viscometer, Brookfield] |
| Explosive Properties: | None |
| Oxidizing properties: | None |

9.2 OTHER INFORMATION

VOC: 0.02%

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| 10.1 REACTIVITY: | None known |
| 10.2 CHEMICAL STABILITY: | Stable under normal conditions. |
| 10.3 POSSIBILITY OF HAZARDOUS REACTIONS: | None known |
| 10.4 CONDITIONS TO AVOID: | None known |
| 10.5 INCOMPATIBLE MATERIALS: | Do not mix with other chemicals unless stated on the product label. |
| 10.6 HAZARDOUS DECOMPOSITION PRODUCTS: | None known |



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:

ATE_{mix} (oral): > 2000 mg/kg

ATE_{mix} (dermal): > 2000 mg/kg

ATE_{mix} (inhalation): > 20 mg/l (4 hr/vapour)

Toxicity testing has not been completed on the mixture.

Based on available data, the classification criteria are not met.

| Component | CAS # | LD50 Oral-Rat (mg/kg) | LD50 Dermal - Rabbit (mg/kg) | LC ₅₀ Inhalation-Rat (mg/l) |
|--------------------|-----------|-----------------------|------------------------------|--|
| ammonium hydroxide | 1336-21-6 | 350 | N/A | N/A |

SKIN CORROSION/IRRITATION:

Based on available data, the classification criteria are not met.

SERIOUS EYE DAMAGE/IRRITATION:

Based on available data, the classification criteria are not met.

RESPIRATORY OR SKIN SENSITIZATION:

Based on available data, the classification criteria are not met.

GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.

CARCINOGENICITY:

Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY:

Based on available data, the classification criteria are not met.

STOT-SINGLE EXPOSURE:

Based on available data, the classification criteria are not met.

STOT-REPEATED EXPOSURE:

Based on available data, the classification criteria are not met.

ASPIRATION HAZARD:

Based on available data, the classification criteria are not met.

11.2 POTENTIAL ADVERSE HEALTH EFFECTS

Effects and symptoms related to this mixture, if any, are listed in Section 4.2.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY: Ecological testing has not been completed on the mixture.

| Component | CAS # | LC50 -96 hr | EC50 - 48 hr | LC50 |
|--------------------|-----------|--------------------------|--------------------------|---------------|
| ammonium hydroxide | 1336-21-6 | fathead minnow, 8.2 mg/l | daphnia magna, 0.66 mg/l | Not available |

12.2 PERSISTENCE AND DEGRADABILITY: Testing has not been completed on the mixture.

| Component | CAS # | Biodegradation |
|--------------------|-----------|-------------------|
| ammonium hydroxide | 1336-21-6 | Inorganic product |

12.3 BIOACCUMULATIVE POTENTIAL: Testing has not been completed on the mixture.

| Component | CAS # | Partition coefficient n-octanol/water (Log Kow) | Bioconcentration factor (BCF) |
|--------------------|-----------|---|-------------------------------|
| ammonium hydroxide | 1336-21-6 | Not available | Not available |

12.4 MOBILITY IN SOIL: Testing has not been completed on the mixture.

| Component | CAS # | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|--------------------|-----------|--|
| ammonium hydroxide | 1336-21-6 | Not available |

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: Not applicable

12.6 OTHER ADVERSE EFFECTS: None known

12.7 ADDITIONAL INFORMATION: Classification criteria, for environmental hazards, are not met.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

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

EU Waste Catalogue: 16 03 05*

SECTION 14: TRANSPORT INFORMATION

Product is not classified as hazardous for transport regulations.

14.1 UN NUMBER: None

14.2 UN PROPER SHIPPING NAME: None

14.3 TRANSPORT HAZARD CLASSES: None

14.4 PACKING GROUP: None

14.5 ENVIRONMENTAL HAZARDS: None

14.6 SPECIAL PRECAUTIONS: None

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE

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

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

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

June 7, 2016 - Logo, Revisions per (EU) 2015/830, Sections 5, 8, 9 & 11

ABBREVIATIONS:

N/A - Not applicable

N/E - Not Established

N/L - Not Listed

FULL TEXT OF HAZARD STATEMENTS:

H314- Causes severe skin burns and eye damage.

H400- Very toxic to aquatic life.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

Safety data sheet available on request.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation