



## SAFETY DATA SHEET

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

Issued: June 9, 2016

Supersedes: May 1, 2015

### REBOOT DEEP SCRUB CLEANER

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

##### 1.1 PRODUCT IDENTIFIER

Product Name: Reboot Deep Scrub Cleaner

Product Number: 342

##### 1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Water-based deep scrub concentrate. Dilute prior to use.

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 (PREPARATION)

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

Skin corrosion - Category 1

Eye damage - Category 1

##### 2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram(s):



Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary Statement(s):

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P301+330+331+311 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor.

P302+352+333+313 IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor if you feel unwell.

##### 2.3 OTHER HAZARDS

Contains d-Limonene. May produce an allergic reaction.

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**REBOOT DEEP SCRUB CLEANER****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1/3.2 SUBSTANCES/MIXTURES**

Ingredient	Weight %	CAS No.	CLP Classification	
			Hazard Class	Hazard Statement(s)*
ethylene glycol monobutyl ether	3 - 7	111-76-2	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
sodium carbonate	1 - 5	497-19-8	Eye Irrit 2	H319
disodium metasilicate	1 - 5	6834-92-0	Skin Corr 1B STOT SE3	H314 H335
caustic soda	1 - 5	1310-73-2	Skin Corr 1A	H314
d-limonene	0.1 - 0.15	5989-27-5	Flam Liq 3 Skin Irrit 2 Skin Sens 1 Aq Acute 1 Aq Chronic 1	H226 H315 H317 H400 H410

\*See section 16 for the full text of Hazard Statements

**SECTION 4: FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST AID MEASURES**

- Eye Contact:** Immediately wash out with water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Seek medical attention immediately.
- Skin Contact:** Immediately wash with plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) Seek medical attention immediately.
- Inhalation:** If breathing is difficult: Remove to fresh air. Seek medical attention immediately.
- Ingestion:** Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

- Eye Contact:** Can cause serious eye damage. May cause permanent damage.
- Skin Contact:** Can cause severe skin burns. May cause permanent damage.
- Inhalation:** May cause irritation or burns to nose, throat and respiratory tract.
- Ingestion:** May cause burns to mouth, throat and stomach.

**4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Treat symptomatically

**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, CO<sub>2</sub>

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. Corrosive material.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Refer to Section 8 for appropriate personal protective equipment.



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### 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, 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.

### 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

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
ethylene glycol monobutyl ether (CAS# 111-76-2)	ACGIH TLV	20	97	-	-	BEI
	DE (TRGS 900)	-	-	10	49	H,Y, AGS
	DK - At-Vejledning Stoffer og materialier- C.0.1	20	98	-	-	EH
	EU (2000/39/EC)	20	98	50	246	Skin
	NO – Forskrift, best.nr. 704	-	-	10	50	H
	EH40	25	123	50	246	Sk, BMGV

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
caustic soda (CAS# 1310-73-2)	ACGIH TLV	-	-	-	2	Ceiling
	DK - At-Vejledning Stoffer og materialier- C.0.1	-	-	-	2	L
	EU (2000/39/EC)	-	-	-	2	T
	NO – Forskrift, best.nr. 704	-	-	-	2	T
	EH40	-	-	-	2	

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
d-Limonene (CAS# 5989-27-5)	DE (TRGS 900)	-	-	5	28	DFG,H,Sh,Y
	NO – Forskrift, best.nr. 704	-	-	25	140	A

### 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.



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#### 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 index 6, Breakthrough time > 480 mins. (E.g. - nitrile gloves, 0.4 mm thickness)  
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:	clear, blue liquid	
Odor:	lemon-lime fragrance	
Odor Threshold:	No test data available	
pH:	12.5	[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:	1.05 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:	<5 centipoise @ 20°C	
Explosive Properties:	none	
Oxidizing properties:	none	

#### 9.2 OTHER INFORMATION

VOC: 5%(as supplied), 1.04%(1:4), 0.58%(1:8), 0.16%(1:32), 0.08%(1:64)

### SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY:** None known
- 10.2 CHEMICAL STABILITY:** Stable under normal conditions.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** Product may react strongly with water. Care should be used if diluting; product should be slowly added to water.
- 10.4 CONDITIONS TO AVOID:** Do not mix with other chemicals unless stated on the product label.
- 10.5 INCOMPATIBLE MATERIALS:** Strong acids and oxidizing agents.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** None known



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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

##### ACUTE TOXICITY:

ATE <sub>mix</sub> (oral)	- >2000 mg/kg	Toxicity testing has not been completed on the mixture.
ATE <sub>mix</sub> (dermal)	- >2000 mg/kg	Based on available data, the classification criteria are not met.
ATE <sub>mix</sub> (inhalation)	- >20 mg/l (4 hr/vapour)	Based on available data, the classification criteria are not met.

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-Rat
ethylene glycol monobutyl ether	111-76-2	1300	>2000	guinea pig (1hr), >3.1 mg/l
sodium carbonate	497-19-8	4090	> 2000	(4hr) - 1.15 mg/l
disodium metasilicate	6834-92-0	995 - 1335	> 5000	(4hr) >2.06 mg/l
caustic soda	1310-73-2	220	rabbit, 1350	Not available
d-limonene	5989-27-5	4400	>2000	Not available

##### SKIN CORROSION/IRRITATION:

Classified as Skin Corrosive - Category 1  
Causes severe skin burns.

##### SERIOUS EYE DAMAGE/IRRITATION:

Classified as Eye Damage - Category 1  
Causes serious eye damage.

##### RESPIRATORY OR SKIN SENSITIZATION:

May produce an allergic skin reaction.

##### 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 EXPSURE:

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	LC/EC50 - 48 hr	EC50 - 72 hr
ethylene glycol monobutyl ether	111-76-2	vertebrate, 820-1490 mg/ml	vertebrate, 820-1490 mg/ml	algae, 911 mg/l
sodium carbonate	497-19-8	vertebrate, 300 mg/l	Daphnia magna, 265 mg/l	algae, 242 mg/l
disodium metasilicate	6834-92-0	vertebrate, 210 mg/l	Daphnia magna, 216 mg/l	algae, 207 mg/l
caustic soda	1310-73-2	vertebrate, 25 ppm	Daphnia magna, 100 ppm	not available
d-limonene	5989-27-5	vertebrate, 0.702 mg/l	Daphnia magna, 0.577 mg/l	NOEC - 4.08 mg/l

#### 12.2 PERSISTENCE AND DEGRADABILITY:

Testing has not been completed on the mixture.

Component	CAS #	Biodegradation
ethylene glycol monobutyl ether	111-76-2	readily biodegradable
sodium carbonate	497-19-8	inorganic substance
disodium metasilicate	6834-92-0	inorganic substance
caustic soda	1310-73-2	inorganic substance
d-limonene	5989-27-5	readily biodegradable

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**REBOOT DEEP SCRUB CLEANER****12.3 BIOACCUMULATIVE POTENTIAL:** Testing has not been completed on the mixture.

Component	CAS #	Partition coefficient n-octanol/water (Log Kow)	Bioconcentration factor (BCF)
ethylene glycol monobutyl ether	111-76-2	0.81	< 100
sodium carbonate	497-19-8	not available	not available
disodium metasilicate	6834-92-0	not available	not available
caustic soda	1310-73-2	not available	not available
d-limonene	5989-27-5	4.38	1022

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

Component	CAS #	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
ethylene glycol monobutyl ether	111-76-2	67
sodium carbonate	497-19-8	not available
disodium metasilicate	6834-92-0	not available
caustic soda	1310-73-2	not available
d-limonene	5989-27-5	1984

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable**12.6 OTHER ADVERSE EFFECTS:** No data available.**12.7 ADDITIONAL INFORMATION:** Based on available data, the classification criteria are not met.**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: 20 01 29\*

**SECTION 14: TRANSPORT INFORMATION****14.1 UN NUMBER:** UN1760**14.2 UN PROPER SHIPPING NAME:** Corrosive liquid, n.o.s. (disodium trioxosilicate)**14.3 TRANSPORT HAZARD CLASSES:** 8**14.4 PACKING GROUP:** II**14.5 ENVIRONMENTAL HAZARDS:** N/A**14.6 SPECIAL PRECAUTIONS FOR USER:**

Package volumes &lt; 1 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

**IMDG**

Emergency Schedules (EmS): Fire F-A, Spillage S-B

Stowage and Segregation: Category B. Clear of living quarters.

Marine Pollutant: None

**ADR/RID**

Class: 8

Item Number: 80

Classification Code: C9

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



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### 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:

648/2004 The surfactants contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member states and will be made available to them, at their direct request or at the request of the detergent manufacturer.

No additional national regulations are known to the supplier.

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

### SECTION 16: OTHER INFORMATION

#### REVISION INFORMATION:

June 9, 2016 - Logo, email address. Revisions in accordance with EC 2015/830. Revisions - Section 2, 3, 5, 9, 11, 12

#### ABBREVIATIONS:

N/A - Not applicable

N/E - Not Established

N/L - Not Listed

#### DETERGENT/CLEANER LABELING (EC/648/2004):

<5% - anionic surfactant, Non-ionic surfactant, EDTA

<5% - perfume (containing <0.15% d-Limonene, >0.01% <0.05% geraniol)

#### FULL TEXT OF HAZARD STATEMENTS:

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

#### FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see ... on this label).  
P337+313 If eye irritation persists: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.

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