

1. IDENTIFICATION

Product Identifier: **ALL CLEAR® DS**

Other Means of Identification: ALL CLEAR DOUBLE STRENGTH 07299

Recommended Use of the Chemical and Restrictions on Use: **For removal of deposits and other debris, including oily substances from tanks, hoses, booms, transfer & mixing systems, filters, screens and nozzles**

Details of Manufacturer or Importer:

Importer: AgNova Technologies Pty Ltd
Suite 3/935 Station Street
Box Hill North Vic 3129
Australia
(03) 9899 8100
www.agnova.com.au

Manufacturer: Amega Sciences plc
Unit 17 Lanchester Way
NN11 8PH Daventry, Northamptonshire
UK
+44 (0) 1327 311 226
admin@amega-sciences.com

Emergency Phone Number: 1800 033 111 (24 hrs)

2. HAZARD(S) IDENTIFICATION

Classification of the Hazardous Chemical according to GHS/WH S:

Signal Word: Danger

Pictogram:



Exclamation Mark, Corrosion

Hazard Statement and Code:

Acute Toxicity – Oral - Category 4:

Hazard Statement: H302 Harmful if swallowed.



SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: August 2018

Skin Corrosion/Irritation - Category 1B:

Hazard Statement: H314 Causes severe skin burns and eye damage.

STOT SE 3: H335 May cause respiratory irritation

Precautionary Statements:

Prevention

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: 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

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local and state regulations

ADG

Classification: Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail 7th Edition (see section 14)

SUSMP

Classification: Not a scheduled poison (Standard for Uniform Scheduling of Medicines and Poisons)

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	HCIS Classification	Concentration (w/v):
Benzenesulfonic acid, mono-C10-16-alkyl derivatives., compounds. with ethanolamine	68910-32-7	Acute tox. 4 Eye dam. 1 Skin irrit. 2	20-<30%
2-aminoethanol	141-43-5	Acute tox. 4 Skin corr. 1B	5-<10%
Tetrasodium (1-hydroxyethylidene)bisphosphonate	3794-83-0	Acute tox. 4 Eye irrit. 2	5-<10%
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7)	68131-39-5	Acute tox. 4 Eye dam. 1 Skin irrit. 2	3-<5%
Non hazardous ingredients			< 45%



SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: August 2018

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Safety Data Sheet to a doctor.

Description of Necessary First Aid Measures:

- Ingestion:** Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.
- Inhalation:** Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.
- Skin contact:** Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.
- Eye contact:** Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms Caused by Exposure:** Acute and delayed effects are indicated in sections 2 and 11.
- Medical Attention and Special Treatment:** Not applicable

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment:	Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.
Specific Hazards Arising from the Chemical:	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
Special Protective Equipment and Precautions for Fire Fighters:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC. Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.
Environmental Precautions:	This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.
Methods and Materials for Containment and Cleaning Up:	Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See section 6)

Conditions for Safe Storage, including any Incompatibilities:

A.- Technical measures for storage

Maximum time: 24 Months

Maximum Temp.: 40 °C

Minimum Temp.: 0 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see section 10

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

All label instructions should be followed to ensure risks associated with exposure to this product are minimised.

Exposure Standards:

Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment (EH40/2005 Workplace exposure limits):

<i>Ingredient</i>	<i>Environmental Limits (Year 2015)</i>		
2-aminoethanol:	WEL (8h)	1 ppm	2.5 mg/m ³
	WEL (15 min)	3 ppm	7.6 mg/m ³
	Safe Work	TWA:	STEL:

ALL CLEAR DS

Date of Issue: August 2018

Dipropylene Glycol Methyl Ether:	Australia WEL (8h)	7.5 mg/ m ³ 50 ppm	15 mg/ m ³ 308 mg/m ³
	WEL (15 min)	-	-

DNEL (Workers):

2-aminoethanol: Dermal; Long exposure; Systemic; 1 mg/kg
Inhalation; Long exposure; Local; 3.3 mg/m³

Alcohols, C12-15, ethoxylated (C12-15 PARETH-7): Dermal; Long exposure; Systemic; 2080 mg/kg
Inhalation; Long exposure; Systemic; 294 mg/m³

Dipropylene Glycol Methyl Ether: Dermal; Long exposure; Systemic; 65 mg/kg
Inhalation; Long exposure; Systemic; 310 mg/m³

DNEL (General Population):

2-aminoethanol: Oral; Long exposure; Systemic; 3.75 mg/kg
Dermal; Long exposure; Systemic; 0.24 mg/kg
Inhalation; Long exposure; Local; 2 mg/m³

Tetrasodium (1-hydroxyethylidene) bisphosphonate: Oral; Short exposure; Systemic; 6.5 mg/kg
Oral; Long exposure; Systemic; 6.5 mg/kg

Alcohols, C12-15, ethoxylated (C12-15 PARETH-7): Oral; Long exposure; Systemic; 25 mg/kg
Dermal; Long exposure; Systemic; 1250 mg/kg
Inhalation; Long exposure; Systemic; 87 mg/m³

Dipropylene Glycol Methyl Ether: Oral; Long exposure; Systemic; 1.67 mg/kg
Dermal; Long exposure; Systemic; 15 mg/kg
Inhalation; Long exposure; Systemic; 37.2 mg/m³

PNEC:

2-aminoethanol:	STP	100 mg/L	Fresh water	0.085 mg/L
	Soil	0.035 mg/kg	Marine water	0.0085 mg/L
	Intermittent	0.025 mg/L	Sediment (Fresh water)	0.425 mg/kg
	Oral	Not applicable	Sediment (Marine)	0.0425 mg/kg

Tetrasodium (1-hydroxyethylidene)bisphosphonate:	STP	580 mg/L	water)	
	Soil	41 mg/kg	Fresh water	0.134 mg/L
	Intermittent	Not applicable	Marine water	0.014 mg/L
	Oral	12000 g/kg	Sediment (Fresh water)	59 mg/kg
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7):	STP	10000 mg/L	Sediment (Marine water)	5.9 mg/kg
	Soil	1 mg/kg	Fresh water	0.0446 mg/L
	Intermittent	0.0446 mg/L	Marine water	0.0446 mg/L
	Oral	Not applicable	Sediment (Fresh water)	41.3 mg/kg
Dipropylene Glycol Methyl Ether:	STP	4168 mg/L	Sediment (Marine water)	41.3 mg/kg
	Soil	2.74 mg/kg	Fresh water	19 mg/L
	Intermittent	190 mg/L	Marine water	1.9 mg/L
	Oral	Not applicable	Sediment (Fresh water)	70.2 mg/kg
			Sediment (Marine water)	7.02 mg/kg

Biological Monitoring: No data available.

Control Banding: No data available.

Engineering Controls: Use in a well-ventilated area.

Individual Protection Measures, for example, Personal Protective *General security and hygiene measures in the work place.*
As a preventative measure it is recommended to use basic Personal Protection Equipment in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see section

ALL CLEAR DS

Date of Issue: August 2018

Equipment (PPE):

7.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Ocular and facial protection: Mandatory face protection - face mask. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

Specific protection for the hands: Mandatory hand protection - non-disposable chemical protective gloves. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

Bodily protection: Mandatory complete body protection - disposable clothing for protection against chemical risks. For professional use only. Clean periodically according to the manufacturer's instructions. Mandatory foot protection - safety footwear for protection against chemical risk. Replace boots at any sign of deterioration.

Respiratory protection: Mandatory respiratory tract protection -filter mask for gases and vapours. Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

Thermal hazards: No data available.

Additional emergency measures: It is not necessary to take additional emergency measures. An emergency shower and eyewash stations should be provided in the workplace.

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see section 7 'Precautions for Safe Handling', point D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:
V.O.C. (Supply): 14 % weight
V.O.C. density at 20 °C: 150.5 kg/m³ (150.5 g/L)
Average carbon number: 3.46
Average molecular weight: 86.89 g/mol

9. PHYSICAL AND CHEMICAL PROPERTIES
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Appearance (20°C): Characteristic yellow liquid
Odour: Characteristic
pH: 10.5-11.5 to 100% (ASTM D3838-05)
Vapour Pressure: Not relevant

ALL CLEAR DS

Date of Issue: August 2018

Boiling Point:	Not relevant
Melting Point:	No relevant
Solubility:	Miscible
Density (20°C):	1065-1085 kg/m ³ (ISO 649-2)
Flash Point:	Not flammable (>60°C)
Auto-Ignition Temperature:	Not relevant
Decomposition Temperature:	Not relevant

10. STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
Chemical Stability:	Chemically stable under the conditions of storage, handling and use.
Possibility of Hazardous Reactions:	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
Conditions to Avoid:	Applicable for handling and storage at room temperature: Shock and friction: Not applicable Contact with air: Not applicable Increase in temperature: Not applicable Sunlight: Not applicable Humidity: Not applicable
Incompatible Materials:	Acids: Avoid strong acids Water: Not applicable Combustive materials: Precaution Combustible materials: Not applicable Others: Avoid alkalis or strong bases
Hazardous Decomposition Products:	Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO ₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

The experimental information related to the toxicological properties of the product itself is not available.

ALL CLEAR DS

Date of Issue: August 2018

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- Acute Toxicity:** Ingestion (acute effect): The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.
- Skin Corrosion/ Irritation:** Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Serious Eye Damage/ Irritation:** Produces serious eye damage after contact
2-aminoethanol: eye /rabbit; 250 µg (severe)
Benzenesulfonic acid, mono-C10-16-alkyl derivs., compounds. with ethanolamine: According to the classification provided by companies to ECHA in CLP notifications this substance causes severe skin burns and eye damage, causes serious eye damage
- Respiratory or Skin Sensitisation:** Inhalation (acute effect): Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract. Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising respiratory or cutaneous effects. For more information see section 3.
- Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Carcinogenicity :** Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Reproductive Toxicity:** Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Specific Target Organ Toxicity (STOT) – single exposure:** Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

ALL CLEAR DS

Date of Issue: August 2018

Specific Target Organ Toxicity (STOT) – repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Aspiration Hazard: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Information on Likely Routes of Exposure:

See section 4

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

See above and section 4

Specific toxicology information on the substances:

Benzenesulfonic acid, mono-C10-16-alkyl derivs., compds. with ethanolamine: LD₅₀ oral (rat): 500 mg/kg
 LD₅₀ dermal (rat): >2000 mg/kg
 LC₅₀ inhalation (rat): non-applicable

Dipropylene Glycol Methyl Ether: LD₅₀ oral (rat): 5180 mg/kg
 LD₅₀ dermal (rat): >2000 mg/kg
 LC₅₀ inhalation (rat): >20 mg/L (4 h)

Tetrasodium (1-hydroxyethylidene)bisphosphonate: LD₅₀ oral (rat): 1219 mg/kg
 LD₅₀ dermal (rat): >2000 mg/kg
 LC₅₀ inhalation (rat): >5 mg/L (4 h)

2-aminoethanol: LD₅₀ oral (rat): 1515 mg/kg
 LD₅₀ dermal (rabbit): 2504 mg/kg
 LC₅₀ inhalation (rat): 11 mg/L (4 h)

Alcohols, C12-15, ethoxylated (C12-15 PARETH-7): LD₅₀ oral: 500 mg/kg (ATEi)
 LD₅₀ dermal: >2000 mg/kg
 LC₅₀ inhalation: >20 mg/L (4 h)

12. ECOLOGICAL INFORMATION

Ecotoxicity: The experimental information related to the eco-toxicological properties of the product itself is not available.

2-aminoethanol: LC₅₀ 349 mg/L (96 h) *Cyprinus carpio* Fish
 EC₅₀ 65 mg/L (48 h) *Daphnia magna* Crustacean



SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: August 2018

EC₅₀ 22 mg/L (72 h) *Scenedesmus subspicatus* Algae
Dipropylene LC₅₀ 10000 mg/L (96 h) *Pimephales promelas* Fish
Glycol Methyl EC₅₀ 1919 mg/L (48 h) *Daphnia magna* Crustacean
Ether:

Persistence and Degradability:

	<u>Degradability</u>	<u>Biodegradability</u>
2-aminoethanol:	-	Concentration 20 mg/L Period 21 days 90% biodegradable
Dipropylene Glycol Methyl Ether:	COD 0.00202 g O ₂ /g	Concentration Non-applicable Period 28 days 73% biodegradable

Bioaccumulative Potential:

2-aminoethanol: BCF 3; Pow Log -1.31 Potential Low
Dipropylene Glycol Methyl Ether: BCF 1; Pow Log -0.06 Potential Low

Mobility in Soil:

	<u>Absorption/desorption</u>	<u>Volatility</u>
2-aminoethanol:	Koc: 0.27 Conclusion: Very High Surface tension: 5.025E-2 N/m (25 °C)	Henry: 3.7E-5 Pa·m ³ /mol Dry soil: No Moist soil: No

Other Adverse Effects: Not described

13. DISPOSAL CONSIDERATIONS

Disposal Containers and Methods:

Consult the appropriate waste management authority on the assessment and disposal operations in accordance with relevant local, state and federal regulations. See section 6 'Environmental Precautions'.

14. TRANSPORT INFORMATION

Transport by land:

Classified as a Dangerous Good (Class 8) according to the Australian Code for the Transport of Dangerous Goods by Road and Rail 7th Edition

UN Number: UN1760
Proper Shipping Name or Technical Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)



SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: August 2018

Name:
Transport Hazard Class: 8
Packing Group: III
Environmental Hazards for Transport Purposes: None
Special Precautions for User: none
Additional Information: - Limited quantities: 5 L
Hazchem Code: 2X

Transport by sea:

With regard to IMDG 37 -14

UN Number: UN1760
Proper Shipping Name or Technical Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)
Transport Hazard Class: 8
Packing Group: III
Environmental Hazards for Transport Purposes: None
Special Precautions for User: Special regulations – 223, 274
EmS codes F-A, S-B
Additional Information: Limited quantities: 5 L
Trsnport in bulk according to Annex II of Marpol and IBC code: Non-applicable

Transport by air:

With regard to IATA/ICAO 2015:



SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: August 2018

UN Number: UN1760
Proper Shipping Name or Technical Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)
Transport Hazard Class: 8
Packing Group: III
Environmental Hazards for Transport Purposes: None
Special Precautions for User: none
MARPOL: Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code
HAZCHEM Code: 2X

15. REGULATORY INFORMATION

APVMA: Registration not required

SUSMP: Not scheduled

State Departments of Agriculture / Primary Industries: No data available

Australian Inventory of Chemical: Listed

16. OTHER INFORMATION

Abbreviations and Acronyms:
APVMA – Australian Pesticides and Veterinary Medicines Authority
BCF – Bioconcentration factor
BOD5 – 5-day biochemical oxygen demand
COD – Chemical Oxygen Demand
DNEL – Derived No Effect Level
GHS – Globally Harmonized System of Classification and Labelling of Chemicals
Koc – Partition coefficient of organic carbon
NOHSC – National Occupational Health and Safety Commission
PNEC – Predicted No Effect Concentration
SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons
WEL – Workplace Exposure Limit
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SAFETY DATA SHEET

ALL CLEAR DS

Date of Issue: August 2018

**Date of
Preparation or
Revision:** August 2018.

**Reason for
Revision:** To comply with WHS regulations.

Data Sources: Manufacturer product safety data and published data

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF SDS