SAFETY DATA SHEET

ALL CLEAR DS Date of Issue: 9 June 2023

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
Unit 4, 482 Kingsford Smith Drive
Hamilton, Qld 4007 Australia
(03) 9899 8100
info@agnova.com.au
agnova.com.au

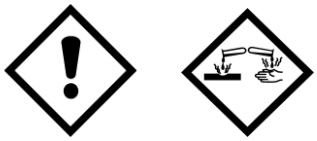
Emergency Phone Number: 1800 033 111 (24 hrs)

2. HAZARD(S) IDENTIFICATION

Classification of the Hazardous Chemical according to GHS/WHS:

Signal Word: Danger

Pictogram:



Exclamation Mark, Corrosion

Hazard Statements:
Acute toxicity - oral - Category 4:
H302 Harmful if swallowed

Skin Corrosion/Irritation - Category 1B:
H314 Causes severe skin burns and eye damage

Specific Target Organ Toxicity (Single Exposure) - Category 3:
H335 May cause respiratory irritation

Precautionary Statements:

Prevention

P261: Avoid breathing spray
P264: Wash hands thoroughly after handling
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/face protection/protective clothing/eye protection/protective footwear

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 victim to fresh air and keep at rest in a position 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 CENTRE or doctor/physician
P363: Wash contaminated clothing before reuse

Storage

P403+P233: Store in a well-ventilated place. Keep container tightly closed
P405: Store locked up

Disposal

P501: Dispose of contents and/or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

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 No:	Classification:	Concentration:
Benzenesulfonic acid, mono-C10-13-alkyl derivatives, compds. with ethanolamine	85480-55-3	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	10–<30%
2-aminoethanol	141-43-5	Acute Tox. 4: H302+H312+H332; Flam. Liq. 4: H227;	<10%

		Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	
tetrasodium (1-hydroxyethylidene) bisphosphonate	3794-83-0	Acute Tox. 4: H302; Eye Irrit. 2A: H319 - Warning	<10%
Alcohols, C12-15, ethoxylated (7 EO)	68131-39-5	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	<10%
Dipropylene Glycol Methyl Ether	34590-94-8	Flam. Liq. 4: H227	<10%

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification:	Specific concentration limit:
2-aminoethanol; CAS: 141-43-5	% (w/w) >=5: STOT SE 3 - H335
tetrasodium (1-hydroxyethylidene) bisphosphonate; CAS: 3794-83-0	% (w/w) >=30: Eye Irrit. 2 - H319

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 mucous 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 administer 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. FIREFIGHTING MEASURES

Suitable Extinguishing Equipment:	Product is non-flammable under normal conditions of storage, handling and use, but the product contains flammable substances. In the case of inflammation as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS RECOMMENDED NOT to use full jet 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 Firefighters:	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, etc.).

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:

It is recommended:
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 use
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, handling 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 on general occupational hygiene
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 3).

Conditions for Safe Storage, including any Incompatibilities:

A.- Technical measures for storage
Duration: tested to 36 months
Maximum Temp.: 40ºC
Minimum Temp.: 2ºC

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

Exposure Control Measures:

Exposure standards:
Substances whose occupational exposure limits have to be monitored in the workplace (Workplace exposure standards for airborne contaminants 16/12/2019):

Identification	*Occupational Exposure Limits*		
Dipropylene Glycol Methyl Ether:	TWA	50 ppm	308 mg/m³
	STEL	-	-
2-aminoethanol:	TWA	3 ppm	7.5 mg/m³
	STEL	6 ppm	15 mg/m³

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 Equipment (PPE):

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see section 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.
Eye and face protection: Mandatory face protection - face shield. Clean daily and disinfect periodically according to the manufacturer´s

instructions. Use if there is a risk of splashing.
Skin protection:
Specific protection for the hands: Mandatory hand protection - chemical protective gloves (material: nitrile, breakthrough time: >480 min, thickness: 0.4 mm). Replace the gloves at any sign of deterioration.
Body 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: An emergency shower and eyewash stations should be provided in the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Yellow
Odour:	Characteristic
Melting/Freezing Point:	Not applicable*
Boiling Point:	Not applicable*
Flammability:	Not applicable*
Lower and Upper Explosion Limit/Flammability Limit:	Not applicable*
Flash Point:	Not flammable (>93ºC)
Auto-Ignition Temperature:	Not applicable*
Decomposition Temperature:	Not applicable*
pH:	10.5-11.5 (at 100%) (ASTM D3838-05)
Kinematic Viscosity (20^{o}C):	Not applicable*
Solubility:	Miscible
Partition Coefficient: n-octanol/water (log value):	Not applicable*

Vapour Pressure:	Not applicable*
Density (20°C):	1065-1085 kg/m^3 (ISO 649-2)
Relative Density (20°C):	1.065-1.085
Particle Characteristics:	Not applicable*

*Not relevant due to the nature of the product, not providing information property of its hazards.

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: Precaution. Sunlight: Precaution. Humidity: Not applicable.
Incompatible Materials:	Acids: Avoid strong acids. Water: Not applicable. Oxidising 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.

Dangerous health implications:

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

Ingestion (Acute Effect):	Acute Toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting. Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
Inhalation (Acute Effect):	Acute Toxicity: 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.
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.
Respiratory or Skin Sensitisation:	Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3. Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. 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 hazardous 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 hazardous for the effects mentioned. For more information see section 3. IARC: Non-applicable
Reproductive Toxicity:	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
Specific Target	Causes irritation in respiratory passages, which is normally

Organ Toxicity (STOT) – single exposure:	reversible and limited to the upper respiratory passages.
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 hazardous for this effect. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous 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 hazardous for this effect. For more information see section 3.

Information on Possible Routes of Exposure:
See above and section 4.

Early Onset Symptoms related to Exposure:
See above and section 4.

Specific Toxicology Information on the Substances:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	LD_{50} oral (rat): 1570 mg/kg LD_{50} dermal (rabbit): 2504 mg/kg LC_{50} inhalation: >5 mg/L (4 h)
Dipropylene Glycol Methyl Ether:	LD_{50} oral (rat): 5180 mg/kg LD_{50} dermal (rabbit): 9510 mg/kg LC_{50} inhalation: >20 mg/L (4 h)
tetrasodium (1-hydroxyethylidene) bisphosphonate:	LD_{50} oral (rat): 1219 mg/kg LD_{50} dermal: >5000 mg/kg LC_{50} inhalation: >5 mg/L (4 h)
2-aminoethanol:	LD_{50} oral (rat): 500 mg/kg LD_{50} dermal (rabbit): 1025 mg/kg LC_{50} inhalation (rat): 11 mg/L (4 h)
Alcohols, C12-15, ethoxylated (7 EO):	LD_{50} oral (rat): 300 mg/kg LD_{50} dermal: >5000 mg/kg LC_{50} inhalation: >20 mg/L (4 h)

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	1790.16 mg/kg (Calculation method)	0%

Dermal	10353.54 mg/kg (Calculation method)	0%
Inhalation	111.11 mg/L (4 h) (Calculation method)	0%

12. ECOLOGICAL INFORMATION

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

Acute toxicity:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	LC_{50} 1.67 mg/L (96 h) *Lepomis macrochirus* Fish
2-aminoethanol:	LC_{50} 349 mg/L (96 h) *Cyprinus carpio* Fish EC_{50} 65 mg/L (48 h) *Daphnia magna* Crustacean EC_{50} 22 mg/L (72 h) *Scenedesmus subspicatus* Algae
Dipropylene Glycol Methyl Ether:	LC_{50} 10000 mg/L (96 h) *Pimephales promelas* Fish EC_{50} 1919 mg/L (48 h) *Daphnia magna* Crustacean

Chronic toxicity:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	NOEC 0.23 mg/L *Oncorhynchus mykiss* Fish NOEC 0.927 mg/L Crustacean
2-aminoethanol:	NOEC 1.24 mg/L *Oryzias latipes* Fish NOEC 0.85 mg/L *Daphnia magna* Crustacean
Alcohols, C12-15, ethoxylated (7 EO):	NOEC 0.16 mg/L *Lepomis macrochirus* Fish NOEC 0.77 mg/L *Daphnia magna* Crustacean
Dipropylene Glycol Methyl Ether:	NOEC 0.5 mg/L *Daphnia magna* Crustacean

Persistence and Degradability:		Degradability	Biodegradability
	Benzenesulfonic	BOD5 Non-	Concentration Non-

acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	applicable COD Non-applicable BOD5/COD Non-applicable	applicable Period 21 days 90% biodegradable
2-aminoethanol:	BOD5 Non-applicable COD Non-applicable BOD5/COD Non-applicable	Concentration 20 mg/L Period 21 days 90% biodegradable
Dipropylene Glycol Methyl Ether:	BOD5 Non-applicable COD 0 g O_2/g BOD5/COD Non-applicable	Concentration Non-applicable Period 28 days 73% biodegradable

Bioaccumulative Potential:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	BCF: 87 Pow Log: - Potential: Moderate
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:

	Absorption/desorption	Volatility
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:	Koc: 1.16 Conclusion: Very High Surface tension: Non-applicable	Henry: Non-applicable Dry soil: Non-applicable Moist soil: Non-applicable
2-aminoethanol:	Koc: 0.27 Conclusion: Very High Surface tension: 5.025E-2 N/m (25ºC)	Henry: 3.7E-5 Pa·m³/mol Dry soil: No Moist soil: No

Other Adverse Effects: Not described

13. DISPOSAL CONSIDERATIONS

Disposal 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)
Transport Hazard Class:	8
Packing Group Number:	III
Environmental Hazards for Transport Purposes:	No
Special Precautions for User:	Physico-Chemical properties: see section 9
Additional Information:	Limited quantities: 5 L
Hazchem Code:	2X

Transport by sea:
With regard to IMDG 40-20

UN Number:	UN1760

Proper Shipping Name or Technical Name:	CORROSIVE LIQUID, N.O.S. (2-aminoethanol)
Transport Hazard Class:	8
Packing Group Number:	III
Environmental Hazards for Transport Purposes:	None, not a marine pollutant
Special Precautions for User:	Special regulations – 223, 274 EmS codes F-A, S-B Physico-Chemical properties: see section 9
Additional Information:	Limited quantities: 5 L Segregation group: Non-applicable
Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:	Non-applicable

Transport by air:
With regard to IATA/ICAO 2022:

UN Number:	UN1760
Proper Shipping Name or Technical Name:	CORROSIVE LIQUID, N.O.S. (2-aminoethanol)
Transport Hazard Class:	8
Packing Group Number:	III
Environmental Hazards for	No

Transport Purposes:	
Special Precautions for User:	Physico-Chemical properties: see section 9
Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:	Non-applicable

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. ANY OTHER RELEVANT INFORMATION

Date of Preparation or Revision:	9 June 2023
Reason for Revision:	Section 2: hazard and precautionary statements updated Section 3: ingredient added and classifications updated Section 6: environmental precautions updated Section 7: precautions for safe handling; conditions for safe storage updated Section 8: exposure standard added, PPE updated Section 9: data updated Section 10: conditions to avoid updated Section 11: statements and data updated, including other information Section 12: data added/updated Section 14: wording slightly revised Section 16: heading updated
Abbreviations and	ADG – Australian Dangerous Goods Code APVMA – Australian Pesticides and Veterinary Medicines Authority

Acronyms:

ASTM – American Society for Testing and Materials
BCF – Bioconcentration Factor
BLEVE – Boiling Liquid Expanding Vapour Explosion
BOD5 – 5-day Biochemical Oxygen Demand
COD – Chemical Oxygen Demand
EC50 – Effective Concentration 50
GHS – Globally Harmonised System of Classification and Labelling of Chemicals
IARC – International Agency for Research on Cancer
IATA – International Air Transport Association
ICAO – International Civil Aviation Organisation
IMDG – International Maritime Dangerous Goods Code
ISO – International Organization for Standardisation
Koc – Partition coefficient of organic carbon
LD50 – Lethal Dose 50
LC50 – Lethal Concentration 50
STEL – Short Term Exposure Limit
SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons
TWA – Time Weighted Average
WHS – Work Health and Safety
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Data Sources: Manufacturer product safety data sheet 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