

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

1. IDENTIFICATION

GHS Product Identifier	G-Wash Marine Cleaner
Product Code	816-0005, 816-0020, 816-0200, 816-1000
Company Name	Gecko Cleantech
Address	2 Gulson Street GOULBURN NSW 2580 Australia
Telephone/Fax Number	+61 2 4821 0007 +61 2 4821 0037
Emergency phone Number	+61 2 4821 0007 +61 2 4821 0007
Email Address	sales@gecko.com.au
Recommended Use of the chemical and restrictions on use	Biodegradable and environmentally responsible fuel and oil spill cleanup agent. Listed in the National Plan Oil Spill Control Agent (OSCA) Register for use as both a Surface Cleaning Agent (SCA) and as an Oil Herding Agent (OHA) on the AMSA National Plan website http://www.amsa.gov.au/environment/maritime-environmental-emergencies/national-plan . This product is Readily Biodegradable according to Australian Standards AS4351.
Additional Information	G-Wash Marine Cleaner is free of all toxic ingredients including petroleum products, glycol ethers, terpenes, strong acids, caustics, phosphates, lauryl sulphates, or volatile organic compounds (VOC's.)

2. HAZARDS IDENTIFICATION

GHS classification of the substance/mixture

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Ingredients determined not to be hazardous		100 %

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

Unsuitable Extinguishing Media

Water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

Specific Hazards Arising From The Chemical

The product itself does not burn. No unusual fire or explosion hazards noted.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed material. If safe to do so, remove containers from path of fire. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing. Stop the leak if safe to do so. Evacuate unprotected personnel. If possible contain the spill. Surfaces may become slippery after spillage. Flush area with water. If spilt on electrical equipment will cause short-circuits. Place inert absorbent, non-combustible material onto spillage. Collect the material and place into suitable labelled containers for recycling or disposal. Dispose of waste according to the applicable local and national regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene by washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing. Freezing will affect the physical condition but will not damage the material. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection

Respiratory protection not normally required. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/ New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear impervious chemical resistant gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/ NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Clear free flowing liquid
Colour	Yellow to light amber
Odour	Mild surfactant
Decomposition Temperature	Not available
Melting Point	0°C (ASTM 097)
Boiling Point	100°C (ASTM 01120)
Solubility in Water	100% soluble

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	9.9-10.9
Vapour Pressure	< 5 mm Hg (37.8°C) (ASTM D323)
Vapour Density (Air=1)	Not available
Evaporation Rate	>5 (relative to xylene)
Odour Threshold	Not available
Viscosity	5 cPs (24°C) (ASTM 02196)
Volatile Component	Volatiles: 93% by wt. (including water) (105°C) (ASTM 0800) VOC: None measurable by USEPA 601, 602, 608
Partition Coefficient:	n-octanol/water Not available
Density	-1.01 kg/l (15°C)
Flash Point	>100°C (ASTM D93 Closed Cup)
Flammability	Not flammable
Auto-Ignition Temperature	Not applicable
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable
Other Information	Surface Tension: 31.5 dynes/cm (ASTM 01331)

10. STABILITY AND REACTIVITY

Reactivity	Reacts with incompatible materials.
Chemical Stability	Stable under normal conditions of handling and storage
Conditions to Avoid	Extremes of temperature and direct sunlight.

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

Incompatible materials	Not available
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including: carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Not available
Hazardous Polymerization	Will not occur

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11. TOXICOLOGICAL INFORMATION

Toxicology Information The available toxicity data is given below.

Acute Toxicity - Oral	LD50 (rat): >5000 mg/kg bw
Acute Toxicity - Dermal	LD50 (rabbit): >2000 mg/kg bw

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Skin	Causes mild skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. Primary Skin Irritation in Rabbits: Cat. III, Moderate Irritation at 72-hrs.
Eye	Causes mild eye irritation. On eye contact this product can cause tearing, stinging, blurred vision, and redness. Sample caused minimal ocular irritation (In Vitro Ocular Irritation test)
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	Not expected to be a skin sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Eco toxicity for this product meets the Australian 2012 Oil Spill Control Agents requirements and is overall practically non-toxic (IMO/GESAMP classification.) Reference ESA TR1034 May 2013.
Persistence and degradability	The product is biodegradable. According to the results of tests of biodegradability, this product is considered as being readily biodegradable. (Modified Sturm Test OECD 301B)

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

Mobility The product is miscible with water. May be spread in water systems.

Bioaccumulative Potential Does not bioaccumulate.

Other Adverse Effects Not available

Environmental Protection Prevent large amounts from entering waterways, drains and sewers.

Acute Toxicity - Fish LC50(Pimephales promelas): 316mg/l/96h (100% survival at 100 mg/l)

Acute Toxicity - Algae EC50 (Skeletonema costatum): 18.74 mg/kg/72h

Other Information LC50 (Crustacea, Corophium volutator): >16,203 mg/kg/10d

EC50 (Saccostrea glomerata):17.1 ppm

EC50 (Saccostrea echinata) :17.5 ppm

EC50 (Mytilus galloprovincialis): 13.2 ppm

EC50 (Parvocalanus crassispinis): 14.7 ppm

EC50 (Allorchestres compressa) : > 20 ppm

EC50 (Lates calcarifer): 20 ppm

EC50 (Haliotis tuberculata): 13.8 ppm

IC50 (Isochrysis aff. galbana): 8.6 ppm

IC50 (Nitzschia closterium):> 20 ppm

EC50 (Hormosira banksia):> 20ppm

13. DISPOSAL CONSIDERATIONS

Disposal considerations Dispose of waste according to applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number None Allocated

UN proper shipping name None Allocated

Transport hazard class(es) None Allocated

Special Precautions for User Not available

IMDG Marine pollutant No

Transport in Bulk Not available

15. DISPOSAL CONSIDERATIONS

Regulatory information

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS reviewed: January 2017

Supersedes: August 2016

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

MATERIAL SAFETY DATA SHEET

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MATERIAL SAFETY DATA SHEET

NON-Hazardous, NON-Dangerous Goods

END OF SDS

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