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SAFETY DATA SHEET **Date of Issue: 20 Feb 2020**

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade Name:	Norchem Seaquest 680 WBC
Product synonyms:	Water Base Oil Spill Dispersant
Recommended Use:	Dispersant for Oil Spills, Rig Wash, Deck wash.
Company Identification:	Goldcrest International Singapore Pte. Ltd. 38 Tech Park Crescent Singapore 638098
Emergency telephone number:	(65) 6862 6006 Tel (65) 6863 3665 Fax

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: Not classified

HEALTH HAZARDS: Skin corrosion/irritation: Category 2 — Causes skin irritation

Serious eye damage/irritation: Category 1 — Causes serious eye damage

ENVIRONMENT HAZARDS: Not classified

GHS LABEL

PICTOGRAM

SIGNAL WORD Warning Danger

GHS STATEMENT

HEALTH HAZARDS:

H315: Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statement:
Prevention
P264: Wash skin throughly after handling.
P280: Wear protective gloves/eye protection/face protection.

Response
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice / attention.
P362: Take off contaminated clothing and wash before reuse.

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for seral minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor / phsician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	Common Name/Synonyms	CAS No.	% Range
Decyl glucoside	-	141464-42-8	< 40%
Polyoxethylene Sorbitan Monooleate	-	9005-65-6	< 10%
Ethoxylated oleic acid	-	9004-96-0	< 10%
D,L-alpha-Tocopherol	-	10191-41-0	< 1%
Water	-	7732-18-5	Balance

4. FIRST AID MEASURES

Inhalation

Remove from further exposure. Provide fresh air.
For those providing assistance avoid exposure to yourself or others. Use adequate respiratory protection.
If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.

Skin Contact

Remove residues with soap and water. Change contaminated clothing. In case of skin reactions, consult a physician.
For those providing assistance, avoid futher skin contact to yourself or others. Wear protective gloves.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If irritation occurs, get medical assistance.

Ingestion

After swallowing: Rinse mouth and drink large quantities of water.
Never give anyth Treat symptomatically

Most important symptoms and effects, both acute and delayed

After contact with skin: Irritant.
After eye contact: Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media: Water fog, foam, extinguishing powder, carbon dioxide.

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Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide and carbon dioxide

Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear suitable protective clothing.

Additional information: Hazchem-Code: -

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Use water spray to cool fire exposed surfaces and to protect personnel.

6. ACCIDENTAL RELEASE MEASURES

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled material. Warn or evacuate occupants in surrounding.

Hazard identification Section for Significant Hazards. See Section 4 for First Aid Advice.

Use personal protective clothing. Information regarding personal protective measures see, section 8.

depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: half-face or full-face respirator with filter(s) for organic vapour.

Use chemcal resistance gloves, goggles to prevent direct contact with body tissues.

Small spills: chemical resistance appron is usually adequate.

Large spills full body suit of chemical resistant is recommended.

Environmental precautions

Do not discharge into drains, surface and ground water.

Methods and material for containment and cleaning up

Prevent entry into waterways or sewer.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Place absorbed material in the same container as the spilled substance/product for disposal.

Do not touch or walk through spilled material.

7. HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation. Keep the containers closed when not in use.

Avoid all personal contact. Do not get in eyes, on skin, on clothing.

Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Have emergency equipment (for spills, leaks, etc.) readily available.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry area.

Keep container tightly closed.

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Keep away from Incompatible materials.
Suitable materials for containers: polyethylene (PE), High density polyethylene (HDPE)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Additional information: Contains no substances with occupational exposure limit values.
DNEL/DMEL: CAS No. 141464-42-8
DNEL Long-term systemic, workers, inhalative: 420 mg/m³
DNEL Long-term systemic, workers, dermal: 595000 mg/kg bw/d. Long-term systemic, consumers, inhalative: 124 mg/m³.
DNEL Long-term systemic, consumers, dermal: 357000 mg/kg bw/d. Long-term systemic, consumers, oral: 35,7 mg/kg bw/d.
PNEC: CAS No. 141464-42-8
PNEC water (freshwater): 0,176 mg/L. PNEC water (marine water): 0,018 mg/L.
PNEC water (intermittend release): 0,0295 mg/L. PNEC sediment (freshwater): 1,516 mg/kg dwt.
PNEC sediment (marine water): 0,065 mg/kg dwt.
PNEC soil: 0,654 mg/kg soil dw.
PNEC sewage treatment plant: 5000 mg/L. Secondary Poisoning:
PNEC predators, oral: 111,11 mg/kg feed

Appropriate Engineering Controls
The intended mode of use of the product (mixture) is in the open environment (sea).
Control measures to consider: No know method (product does not fume).
When mist form: use mechanical handling to reduce human contact with materials.

Personal Protective Equipment
Occupational exposure controls
Respiratory protection: Respiratory protection in case of aerosol or vapour formation
Use filter type A (= against vapours of organic substances) according to EN 14387.
Hand protection: Protective gloves according to EN 374. Glove material: Nitrile rubber. Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection: Tightly sealed goggles according to EN 166.
Body protection: Wear suitable protective clothing.
General protection and hygiene measures:
Avoid contact with skin and eyes. Change contaminated clothing. When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Have eye wash bottle or eye rinse ready at work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Appearance:	Physical State	Liquid - Clear to Slightly cloudy
	Colour	Slight Amber to colourless
Odour		Mild
Odour threshold;		Not available
pH (100%)		10 ± 0.5

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Melting Point:	Not available
Boiling Point:	Not available
Flash point:	> 66°C
Evaporation Rate:	Not available
Flammability (solid, gas);	Not applicable
Flamrnable Limits (Approxlmate volume % ln alr):	LEL & UEL: Not available
Vapor Pressure:	Not available
Vapour density:	Not available
Specific Gravity:	At 20°C 0.98 - 1.08
Solubility In Water	Soluble
Partition coefficient: n-octanol/water;	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity	Not available

Other Information

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reactions are known.
Chemical stability	Product is stable under normal storage conditions.
Possibility of hazardous reactions	No dangerous reactions are known.
Conditions to avoid	No data available.
Incompatible materials	None known.
Hazardous decomposition products:	In case of fire may be liberated: carbon monoxide and carbon dioxide Thermal decomposition: no data available

11. TOXICOLOGICAL INFORMATION

INGREDIENT TOXICITY INFORMATION

	Decyl glucoside	Ethoxylated oleic acid D,L-alpha-Tocopherol
Acute toxicity		
Oral	Classification criteria not met. Rat LD50 >5000 mg/kg (ECD402)	Acute Toxicity Category 5 (7) Rat LD50 > 2000 mg/kg *
Dermal	Classification criteria not met. Rabbit LD5(>2000 mg/kg	Not Available
Inhalative	Not Available	Not Available
Skin corrosion/irritation	Irritant Category 2 (1)	Irritant Category 2 (8)
Serious eye damage /eye irritation	Eye damage. Category 1 (2)	Classification criteria not met. (9)

Sensitization

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Dermal	Classification criteria not met. [3]	Not Available
Inhalation	Not Available	Not Available
Germ cell mutagenicity;	Classification criteria not met. [4]	Not Available
Carcinogenicity;	Not Available	Not Available
Reproductive toxicity;	Classification criteria not met. [5]	Not Available
STOT-single exposure;	Not Available	Not Available
STOT-repeated exposure;	Not Available [6]	Classification criteria not met. [10]
Aspiration hazard	Not Available	Not Available

Primary routes of exposure: Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Symptoms: After contact with skin: Irritant.
After eye contact: Causes serious eye damage.

[1] Skin Irritant. 2; H315 = Causes skin irritation. Rabbit, irritant (OECD 404)
[2] Eye Damage. 1; H318 = Causes serious eye damage. Rabbit, irritant (OECD 405)
[3]Skin sensitisation: Based on available data: Guinea pig, not sensitising.
[4] chromosomal aberrations mammalian cells (hamster): negative, (OECD 473) in-vivo
[4] chromosomal aberrations mammalian cells in micronucleus test: Mouse (male), intraperitoneal: negative
[5] NOAEL Rat: 1000 mg/kg. No visible effects. Effects on or via lactation: Lack of data.
[6] CAS No. 141464-42-8: NOAEL: 1000mg/kg bw/d
[7] Symbol : *No Symbol* , Signal word: Warning, Hazard statement: May be harmful if swallowed.
[8] Symbol : Exclamation mark, Signal word: Warning, Hazard statement: Causes skin irritation.
[8] Species: rabbit, Result: Irritant. Method: BASF-Test
[9] Species: rabbit, Result: Non-Irritant. Method: BASF-Test
[10] Chronic Toxicity/Effects Repeated dose toxicity: Assessment of repeated dose toxicity: No known chronic effects.
* The product has not been tested, statement has been derived from substances/products of a similar structure or composition.

12. ECOLOGICAL INFORMATION

Decyl glucoside	**Ethoxylated oleic acid D,L-alpha-Tocopherol**	**Norchem Seaquest 680 WBC (Mixture)**
Toxicity		
FISH TEST RESULTS Test: Acute toxicity, freshwater (OECD 203) Duration: 96 hr. Species: Brachydanio rerio (zebra-fish) 3 mg/l LC50	FISH TEST RESULTS Test: Acute toxicity. Duration: 96 hr. Species: Not Available 1 - 10 mg/l LC50	FISH TEST RESULTS Test: Acute toxicity, freshwater (AVA) Duration: 96 hr. Species: Glass Fish (Chanda Gymocephalus) > 100 mg/l LC90 [1]

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[1] Toxicity test result 7/10 survived = LC90

INVERTEBRATE TEST RESULTS Test: Acute Immobilization (OECD 202) Duration: 48 hr Species: Big water Flea (Daphnia magna) 7 mg/l EC50	INVERTEBRATE TEST RESULTS Test: Acute Immobilization Duration: 48 hr Species: Daphnia sp. 1 - 10 mg/l EC50	INVERTEBRATE TEST RESULTS Not Available

Persistence and degradability:	**Biodegradability**	
Photo-chemical elimination (Air): DT50:2,51 h Hydrolysis at pH 4,7,9 : none Biodegradability: 88% 28 d The product is completely biodegradable.	Elimination information > 60 % CO2 formation relative to the theorectical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily biodegradable.	Method: MPA/MV/III [2] [2] The Maritime and Port Authority of Singapore - MPA Testing period 8 days Biodegradability: > 90% Readily biodegradable.

Bioaccumulative potential:	**Bioaccumulation**	
No data available	No data available	No data available

Mobility in soil:	**Distribution among environment compartments**	
log KOC: 1,7/25 °C Henry's Law Constant: 0,00000002 Pa m³/mol/25 °C	No data available	No data available

Results of PBT and vPvB assessment		
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.	No data available	No data available

Other adverse effects:	**Additional ecological information**	
General information: Do not allow to enter into ground-water, surface water or drains: Information given is based on data on the components and the ecotoxicology of similar products	Do not release untreated into natural waters. The product has not been tested	No data available

13. DISPOSAL CONSIDERATION

If disposal is necessary, do not dispose into sewage. Consult local, state and federal regulations.
For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in Section 8.
The Company recommends that organic materials, especially when classified as combustible liquid,
be disposed of by approved facilities or licence waste collector. Observe all local and national regulations.

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Empty Container Warning (where applicable):
Empty containers may contain residue and can be dangerous.
Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14. TRANSPORT INFORMATION

	ADR, RID, ADN	*IMDG*	*IATA*
UN Number:	Not Classified	Not Classified	Not Classified
UN Proper Shipping Name:	Not Classified	Not Classified	Not Classified
Transport Hazard Class:	Not Classified	Not Classified	Not Classified
Packing Group:	Not Applicable	Not Applicable	Not Applicable
Environmental Hazard	Not Classified	Not Classified	Not Classified
Special Precaution for use	No information		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.	No Information		

15. REGULATORY INFORMATION

Montreal Protocol	Not Listed
Stockholm Convention	Not Listed
Rotterdam Convention	Not Listed

National Regulations
Singapore: First Schedule of the Prevention of Pollution of the Sea (Oil Pollution Preparedness, response and Co-operation) Regulations 1999

16. OTHER INFORMATION

References:
National Regulation Singapore http://statutes.agc.gov.sg/aol/search/display/view.w3p;page
Test Report PD00040-19/05/10 - Biodegradability, Toxicity, Dispersant Capacity, etc.

Date Issued: 20 Feb 2020
This Safety Data Sheet was prepared in accordance to United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 2009)

End of Safety Data Sheet