

# GulfSea Cylcare XP 50140 Gulf Marine Pte. Ltd.

Chemwatch: **5659-03** Version No: **3.1** Safety Data Sheet in accordance with SS 586-3:2022 Issue Date: **21/02/2024** Print Date: **07/05/2025** S.GHS.SGP.EN.E

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifie
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GulfSea Cylcare XP 50140
Not Applicable
Not Available
Not Applicable
GulfSea Cylcare XP 50140H

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Marine Cylinder Oil
Relevant identified uses	Use according to manufacturer's directions.

### Details of the manufacturer or importer of the safety data sheet

Registered company name	Gulf Marine Pte. Ltd.
Address	37 Tuas Road 638503 Singapore
Telephone	+65 6592 0120
Fax	Not Available
Website	Not Available
Email	sds@gulf-marine.com

### Emergency telephone number

Association / Organisation	Gulf Marine Pte. Ltd.
Emergency telephone number(s)	+65 6592 0120
Other emergency telephone number(s)	Not Available

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Classification

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2

### Label elements

Hazard pictogram(s)





Signal word

Warning

### Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

### Precautionary statement(s) Storage

P405	1	Store locked up.
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### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### Other hazards

Inhalation and/or skin contact may produce serious health damage\*.

Cumulative effects may result following exposure\*.

May produce discomfort of the eyes and skin\*.

May affect fertility\*.

May be harmful to the foetus/ embryo $^\star$ .

\*LIMITED EVIDENCE

### **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### **Mixtures**

CAS No	% [weight]	Name	Synonyms	Chemical formula
74499-35-7	<5	4-dodecylphenol, mixture of isomers	C18-H30-O; C12H25C6H4OH; phenol, 4-dodecyl-; 4-laurylphenol; p-dodecylphenol; phenol, (tetrapropenyl) derivatives; para-dodecylphenol (PDDP); tetrapropenylphenol (TPP); PDDP; phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkylchains from propene oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	C18-H30- O C18H30O C14H14O
107-21-1	<5	ethylene glycol	CH2-OHCH2-OH; C2-H6-O2; ethylene glycol antifreeze; ethanediol; 1,2-ethanediol; UCAR 17; ethandiol; 1,2-dihydroxyethane; ethylene dihydrate; glycol oglycol alcohol; Lustrol-9; M.E.G.; monoethylene glycol; Norkool; Tescol; Dowtherm SR1; Merck ethanediol AnalaR	C2H6O2 C2-H6-O2
Not Available	balance	Ingredients determined not to be hazardous		Not Available

### **SECTION 4 First aid measures**

Description of first aid measures				
Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
Skin Contact	If skin or hair contact occurs:  • Quickly but gently, wipe material off skin with a dry, clean cloth.  • Immediately remove all contaminated clothing, including footwear.  • Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.  • Transport to hospital, or doctor.			
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>			

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Ingestion

- Immediately give a glass of water
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

### **Extinguishing media**

Foam.

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- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide
- Water spray or fog Large fires only.

### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

## Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

## Fire/Explosion Hazard

- Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.
- Mists containing combustible materials may be explosive.

Combustion products include:

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

May emit poisonous fumes

May emit corrosive fumes.

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  No smoking, naked lights or ignition sources.  Increase ventilation.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Absorb remaining product with sand, earth or vermiculite.  Collect solid residues and seal in labelled drums for disposal.  Wash area and prevent runoff into drains.  If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### Precautions for safe handling

### Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials
- When handling, DO NOT eat, drink or smoke

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Keep containers securely sealed when not in use Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. DO NOT allow clothing wet with material to stay in contact with skin Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Other information Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

#### Conditions for safe storage, including any incompatibilities

communication can calculate, in	on and the same of the same and		
Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>		
Storage incompatibility	► Avoid reaction with oxidising agents		

### SECTION 8 Exposure controls / personal protection

#### Control parameters

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#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Singapore Permissible Exposure Limits of Toxic Substances	ethylene glycol	Ethylene glycol	Not Available	127 mg/m3 / 50 ppm	Not Available	Not Available
Ingredient	Original IDLH			Revised IDLH		
4-dodecylphenol, mixture of isomers	Not Available			Not Available		
ethylene glycol	Not Available			Not Available		

### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

#### 0.25-0.5 m/s (50solvent, vapours, degreasing etc., evaporating from tank (in still air). 100 f/min.) aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, 0.5-1 m/s (100spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 200 f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200generation into zone of rapid air motion) 500 f/min.) 2.5-10 m/s (500grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone 2000 f/min.) of very high rapid air motion). Within each range the appropriate value depends on:

## Appropriate engineering controls

Type of Contaminant:

Lower end of the range

1: Room air currents minimal or favourable to capture

2: Contaminants of low toxicity or of nuisance value only.

2: Contaminants of high toxicity

3: Intermittent, low production.
3: High production, heavy use
4: Large hood or large air mass in motion
4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Air Speed:

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### Individual protection measures, such as personal protective equipment











### Eye and face protection

Safety glasses with side shields

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

### Skin protection

See Hand protection below

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

### Hands/feet protection

· Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.

· Contaminated gloves should be replaced.

- As defined in ASTM F-739-96 in any application, gloves are rated as:
- · Excellent when breakthrough time > 480 min Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

· Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed

moisturiser is recommended

### **Body protection**

See Other protection below

### Other protection

- Overalls. P.V.C apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

### Recommended material(s)

### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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Material	СРІ
NATURAL RUBBER	A
NATURAL+NEOPRENE	A
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
IITRILE+PVC	A
PE/EVAL/PE	А
PVC	A
EFLON	A
PVA	В

\* CPI - Chemwatch Performance Index A: Best Selection

### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-3 P2
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur

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B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation.

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Ansell Glove Selection

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Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® Solvex® 37-185
AlphaTec® 58-008
TouchNTuff® 83-500
AlphaTec® 15-554
MICROFLEX® 93-260
AlphaTec® 38-612
AlphaTec® 53-001
AlphaTec® 58-005
AlphaTec® 58-530B

Not Available

Not Available

Not Available

Not Available

Not Available

Not Available

Immiscible

Brown liquid; does not mix with water.

The suggested gloves for use should be confirmed with the glove supplier.

dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

### **SECTION 9 Physical and chemical properties**

Information on basic physical and chemical properties Appearance

Physical state	Liquid	Relative density (Water = 1)	0.9712 at 15°C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	19.5 at 100°C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	230	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

Volatile Component (%vol)

pH as a solution (1%)

Ignition Distance (cm)

**Enclosed Space Ignition** 

Deflagration Density (g/m3)

Flame Duration (s)

Gas group

VOC q/L

Not Available

Not Available

Not Applicable

Not Available

Not Available

Not Available

Not Available

### **SECTION 10 Stability and reactivity**

Lower Explosive Limit (%)

Vapour pressure (kPa)

Vapour density (Air = 1)

**Enclosed Space Ignition** 

Time Equivalent (s/m3)

Heat of Combustion (kJ/g)

Solubility in water

Flame Height (cm)

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 Toxicological information**

Information	an	tovico	logical	offooto
information	on	toxico	logical	errects

a) Acute Toxicity Based on available data, the classification criteria are not met. Page 7 of 11

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b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.			
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating			
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.			
e) Mutagenicity	Based on available data, the classification criteria are not met.			
f) Carcinogenicity	Based on available data, the classification criteria are not met.			
g) Reproductivity	There is sufficient evidence to classify this material as toxic to repre	oductivity		
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.			
i) STOT - Repeated Exposure	There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure			
j) Aspiration Hazard	Based on available data, the classification criteria are not met.			
Inhaled	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce serious damage to the health of the individual.			
Ingestion	The material has NOT been classified by EC Directives or other cla of corroborating animal or human evidence.	ssification systems as "harmful by ingestion". This is because of the lack		
Skin Contact	Skin contact with the material may produce toxic effects; systemic effects may result following absorption.  This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	This material can cause eye irritation and damage in some persons			
	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.  Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.  Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material.			
Chronic	This material can cause serious damage if one is exposed to it for produce severe defects.	ong periods. It can be assumed that it contains a substance which can		
Chronic	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human for	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.		
Chronic  GulfSea Cylcare XP 50140	This material can cause serious damage if one is exposed to it for produce severe defects.	ong periods. It can be assumed that it contains a substance which can		
GulfSea Cylcare XP 50140	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human for the total content of the total can be a serious damage.	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION		
GulfSea Cylcare XP 50140 4-dodecylphenol, mixture of	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human for the total content of the total can be a serious damage if one is exposed to it for produce severe defects.  TOXICITY  Not Available	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available		
GulfSea Cylcare XP 50140	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human for the total content of the total can be a serious damage. Toxicity  Not Available  TOXICITY	ong periods. It can be assumed that it contains a substance which can entility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION		
GulfSea Cylcare XP 50140 4-dodecylphenol, mixture of	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate		
GulfSea Cylcare XP 50140 4-dodecylphenol, mixture of	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe		
GulfSea Cylcare XP 50140 4-dodecylphenol, mixture of	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the serious formula forecome formula formula formula formula formula formula formula for	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION		
GulfSea Cylcare XP 50140 4-dodecylphenol, mixture of	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION  Eye (Rodent - rabbit): 0.012ppm/3D		
GulfSea Cylcare XP 50140 4-dodecylphenol, mixture of	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can entility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION  Eye (Rodent - rabbit): 0.012ppm/3D  Eye (Rodent - rabbit): 100mg/1H - Mild		
GulfSea Cylcare XP 50140  4-dodecylphenol, mixture of isomers	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION  Eye (Rodent - rabbit): 0.012ppm/3D  Eye (Rodent - rabbit): 100mg/1H - Mild  Eye (Rodent - rabbit): 1440mg/6H - Moderate		
GulfSea Cylcare XP 50140  4-dodecylphenol, mixture of isomers	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION  Eye (Rodent - rabbit): 0.012ppm/3D  Eye (Rodent - rabbit): 100mg/1H - Mild  Eye (Rodent - rabbit): 1440mg/6H - Moderate  Eye (Rodent - rabbit): 500mg/24H - Mild		
GulfSea Cylcare XP 50140  4-dodecylphenol, mixture of isomers	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can ertility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION  Eye (Rodent - rabbit): 0.012ppm/3D  Eye (Rodent - rabbit): 100mg/1H - Mild  Eye (Rodent - rabbit): 1440mg/6H - Moderate  Eye (Rodent - rabbit): 500mg/24H - Mild  Eye (Rodent - rabbit): 500mg/24H - Mild  Eye (Rodent - rat): 0.012%/3D		
GulfSea Cylcare XP 50140  4-dodecylphenol, mixture of isomers	This material can cause serious damage if one is exposed to it for produce severe defects.  Ample evidence exists from experimentation that reduced human formula for the control of the c	ong periods. It can be assumed that it contains a substance which can entility is directly caused by exposure to the material.  IRRITATION  Not Available  IRRITATION  Eye (Rodent - rabbit): 100uL - Moderate  Skin (Rodent - rabbit): 500uL - Severe  IRRITATION  Eye (Rodent - rabbit): 0.012ppm/3D  Eye (Rodent - rabbit): 100mg/1H - Mild  Eye (Rodent - rabbit): 1440mg/6H - Moderate  Eye (Rodent - rabbit): 500mg/24H - Mild  Eye (Rodent - rabbit): 500mg/24H - Mild  Eye (Rodent - rab): 0.012%/3D  Eye: no adverse effect observed (not irritating)[1]		

### 4-DODECYLPHENOL,

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

### MIXTURE OF ISOMERS

PDDP caused the following effects in animal studies. The relevance of these findings to humans is not known. PDDP is: A low concern for acute toxicity by the oral or dermal route of exposure; signs of toxicity and mortality occur at very high dose levels that are much greater than typical human exposure. Irritating to eyes and skin; Not a skin sensitizer; Not mutagenic or clastogenic; A low concern for carcinogenicity by genotoxic and non-genotoxic mechanisms; Causes adverse effects on organs and tissues in rats at dose levels that cause reductions in body weight gain, but these effects were not observed in dogs; Causes a reduction in fertility in males and females and a reduction in mean live litter size in rats at a dose level that causes systemic toxicity; Causes reduction in the size of male reproductive organs in rats at dose levels that cause systemic toxicity; Causes adverse developmental effects in rats (skeletal variations and malformations and external variations) at dose levels that cause maternal toxicity; Causes a reduction in the growth rate of new offspring in rats. \* SI Group for tetrapropenyl phenol and its derivatives.

The chemical possesses properties indicating a potential hazard for human health (effects on fertility and developmental toxicity at doses that also cause maternal toxicity). Adequate screening-level data are available to characterize the human health hazard for the purposes of the OECD Cooperative Chemicals Assessment Programme

SID Initial Assessment Profile (SIAM 22, 18-21 April 2006)

for para-C12-alkylphenols (typically tetrapropenylphenol)

Based on the toxicological findings presented in this review, para-C12-alkylphenols do not appear to meet the EU criteria for classification for acute toxicity by the oral and dermal routes of exposure, skin sensitisation, repeated dose toxicity or mutagenicity. No information is available relating to acute toxicity via inhalation exposure, and carcinogenicity. The following characteristics do suggest that the substance warrants consideration for classification:

Irritation: para-C12-alkylphenols apparently meet the EU criteria for classification as a skin irritant and a severe eye irritant. Classification for corrosivity could be considered.

Reproductive toxicity: • Fertility: The treatment-related effects on fertility, with supporting pathological changes indicating site of action, appear to meet the EU criteria for classification. The observation that the fertility effects only occurred in the presence of general toxicity might need to be taken into account in deciding the most appropriate category. Overall, these findings suggest that category 2 classification for acute toxicity may be most appropriate, although arguments for category 3 might be considered.

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Developmental toxicity: para-C12-alkylphenols caused craniofacial (cleft palate, 3 pups from 1 litter) and long bone malformations (bent long bones) in rats, but only at doses that caused some non-specific maternal toxicity (reduced body weight gain). These findings are not considered to be a secondary non-specific consequence of general toxicity and hence classification for developmental toxicity should be considered. A decision on whether category 2 or 3 is most appropriate may need expert consideration.

### Classification for the environment

The substance is classified by the producers as 'dangerous to the environment (with the symbol N) with the following risk phrases: R50/53; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

This is based on the following data:

- · Aquatic toxicity: 48-hour Daphnia EC50 <1 mg/L;
- log Kow >3 and measured fish bioconcentration factor of 823;
- Not readily biodegradable.

Acute toxicity data for the oral route of exposure are available for the rat only. LD50 values of 2,100 and 2,200 mg/kg were obtained in two separate studies. In one study, no deaths were observed with a single oral dose of 500 mg/kg but one rat at this dose level showed bloody urine that persisted for 48 hours post-dosing. A NOAEL for the effects of a single oral dose cannot be determined. Signs of toxicity observed in the acute oral toxicity studies included ruffled fur, diarrhoea, diuresis, retarded motion and ataxia.

Dermal: Two studies are available, both in rabbits. The findings indicate that deaths occur with doses above 3,160 mg/kg, and an LD50 of

15,000 mg/kg has been reported. Studies in rabbits indicate that tetrapropenylphenol is a severe skin irritant.

Eye: Studies in rabbits indicate that tetrapropenylphenol is an eye irritant capable of causing corneal opacity and iritis.

Respiratory tract: No data are available concerning respiratory tract irritancy. Given the evidence for skin and eye irritancy, it might be expected that inhaled tetrapropenylphenol would irritate the respiratory tract.

Corrosivity: Necrosis and eschar formation have been reported following dermal application of tetrapropenylphenol to rabbits. From the data available it is uncertain whether or not tetrapropenylphenol should be regarded as corrosive or as a severe skin irritant.

Sensitisation: Tetrapropenylphenol was not identified as a cause of skin sensitisation in two studies in guinea pigs

Repeated dose toxicity: Repeated dosing of tetrapropenylphenol to rats in oral studies, both dietary and gavage, produces effects in a number of organs including the reproductive organs in both sexes.

In the 28-day gavage study in rats, no toxicologically significant treatment-related effects were observed at 5 mg/kg/day. At the next higher dose of 20 mg/kg/day, adrenal cortical gland hypertrophy was observed in male rats. At 180 mg/kg/day and above, pathological changes and organ weight changes were observed in a number of organs, including prominent changes in the reproductive organs in both sexes In the dietary studies, effects on the testes were noted at 250 mg/kg/day (28-day study) and 106 mg/kg/day (90-day study). No treatmentrelated toxicological effects were seen in the dietary studies at 25 and 28 mg/kg/day respectively.

No treatment-related changes were reported in dogs at doses up to 4,000 ppm in the diet (estimated by the author to be equivalent to 180 mg/kg/day assuming a body weight of 11 kg and a daily food consumption of 0.5 kg). The absence of treatment- related changes in dogs suggests the existence of a species difference.

Genotoxicity: From the in vitro and in vivo studies available it can be concluded that tetrapropenylphenol is not mutagenic.

Carcinogenicity: There are no carcinogenicity studies available for tetrapropenylphenol. Given the lack of evidence for mutagenicity it is likely that if tetrapropenylphenol had the potential to cause cancer it would involve a threshold mechanism. It is uncertain whether or not the effects on the uterus and the endometrial gland cysts in the one-generation fertility study at the top dose of 125 mg/kg/day indicate the possibility of uterine cancer at these sites following prolonged exposure.

Reproductive toxicity: Tetrapropenylphenol has an adverse effect on fertility in rats, causing a marked reduction in fertility at 125 mg/kg/day. At doses of 25 mg/kg/day and above tetrapropenylphenol causes a reduction in mean pup weight and pathological changes in the reproductive organs of both sexes. The reduction in fertility and effects on reproductive organs occurred at doses that also caused other toxic effects, including reduced bodyweight gain and food consumption and changes in the adrenals, kidneys and liver. However, this toxicity was not considered to be particularly severe such that the adverse effects on fertility could have been a secondary non-specific consequence of general toxicity. The NOAEL for reproductive effects is 5 mg/kg/day.

Developmental toxicity: Tetrapropenylphenol is also a developmental toxicant in rats, causing teratogenic effects as shown by cleft palate and ectodactyly (reduced number of digits) as well as a general increase in the total number of skeletal malformations at 300 mg/kg/day. These manifestations of developmental toxicity occurred in the presence of overt maternal toxicity, indicated by a significant reduction in

Environmental risk evaluation report: para-C12-alkylphenols (dodecylphenol and tetrapropenylphenol): Environment Agency UK No significant acute toxicological data identified in literature search.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

### ETHYLENE GLYCOL

[Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat

Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. Following absorption, it is distributed throughout the body. In humans, it is initially metabolized by alcohol dehydrogenase to form glycoaldehyde, which is rapidly converted to glycolic acid and glyoxal. These breakdown products are oxidized to glyoxylate, which may be further metabolized to formic acid, oxalic acid, and glycine. Breakdown of both glycine and formic acid can generate carbon dioxide, which is one of the major elimination products of ethylene glycol. In addition to exhaled carbon dioxide, ethylene glycol is eliminated in the urine as both the parent compound and glycolic acid. Elimination is rapid and occurs within a few hours.

Respiratory effects: Respiratory system involvement occurs 12-24 hours after swallowing sufficient amounts of ethylene glycol. Symptoms include hyperventilation, shallow rapid breathing, and generalized swelling of the lungs with calcium oxalate deposits occasionally appearing in the lungs. Respiratory system involvement appears to be dose-dependent and occurs at the same time as cardiovascular changes. Later, there may be other changes compatible with adult respiratory distress syndrome (ARDS). Swelling of the lung can be a result of heart failure, ARDS, or aspiration of stomach contents. Symptoms related to acidosis such as fast or excessive breathing are frequently observed; however, major symptoms such as swelling of the lung and inflammation of the bronchi and lungs are relatively rare, and are usually seen only in extreme poisoning.

Cardiovascular effects: Cardiovascular system involvement in humans occurs at the same time as respiratory system involvement, during the second phase of ethylene glycol poisoning by swallowing, which is 12-24 hours after acute exposure. The symptoms of poisoning involving the heart include increased heart rate, heart enlargement and ventricular gallop. There may also be high or low blood pressure, which may progress to cardiogenic shock. In lethal cases, inflammation of the heart muscle has been observed at autopsy. Cardiovascular involvement appears to be rare and usually seen after swallowing higher doses of ethylene glycol. In summary, acute exposure to high levels of ethylene glycol can cause serious cardiovascular effects in humans. The effects of a long-term, low-dose exposure are unknown. Gastrointestinal effects: Common early acute effects of swallowing ethylene glycol include nausea, vomiting with or without blood, heartburn and abdominal cramping and pain. One patient showed intermittent diarrhea and pain, and after surgery, deposition of oxalate crystals was shown to have occurred.

Musculoskeletal effects: Reported musculoskeletal effects in cases of acute ethylene glycol poisoning include diffuse muscle tenderness and pain, associated with high levels of creatinine in the blood, and jerks and contractions associated with low calcium.

Liver effects: Autopsies carried out on people who died following acute ethylene glycol poisoning showed deposition of calcium oxalate in the liver as well as hydropic and fatty degeneration and cell death (necrosis) of the liver.

Kidney effects: Adverse kidney effects are seen during the third stage of ethylene glycol poisoning, 2-3 days after acute exposure. Calcium oxalate crystals are deposited in the tubules and are seen in the urine. There may also be degeneration and death of tubule cells, and inflammation of the tubule interstitium. If untreated, the degree of kidney damage progresses and leads to blood and protein in the urine,

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decreased kidney function, reduction in urine output and ultimately, kidney failure. With adequate supportive therapy, kidney function can return to normal or near normal.

Metabolic effects: Metabolic changes can occur within 12 hours of exposure to ethylene glycol. There may be metabolic acidosis, caused by accumulation of glycolic acid in the blood and therefore a reduction in blood pH. The anion gap is increased, due to increased unmeasured anions (mainly glycolate).

Effects on the nervous system: Adverse reactions involving the nervous system are among the first symptoms to appear in humans after ethylene glycol is swallowed. These early effects are also the only symptoms caused by unmetabolised ethylene glycol. Together with metabolic effects (see above), they occur from 0.5-12 hours after exposure and are considered to be part of the first stage in ethylene glycol poisoning. Inco-ordination, slurred speech, confusion and sleepiness are common in the early stages, as are irritation, restlessness and disorientation. Later, there may be effects on cranial nerves (which may be reversible over many months). Swelling of the brain (cerebrum) and crystal deposits of calcium oxalate in the walls of the small blood vessels of the brain were found at autopsy in people who died after acute ethylene glycol poisoning.

Reproductive effects: Animal testing showed that ethylene glycol may affect fertility, survival of fetuses and the male reproductive organs. Effects on development: Animal studies indicate that birth defects may occur after exposure in pregnancy; there may also be reduction in

Cancer: No studies are known regarding cancer effects in humans or animal, after skin exposure to ethylene glycol.

Genetic toxicity: No human studies available, but animal testing results are consistently negative.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	~	Reproductivity	✓
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	<b>~</b>
Mutagenicity	×	Aspiration Hazard	×

Legend:

💢 – Data either not available or does not fill the criteria for classification

🛹 – Data available to make classification

#### Other information

Not Available

### **SECTION 12 Ecological information**

### Toxicity

Not				
Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96h	Fish	0.14mg/L	4
BCF	1440h	Fish	300-640	7
Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48h	Crustacea	>100mg/l	2
EC50(ECx)	Not Available	Algae or other aquatic plants	6500- 7500mg/l	1
EC50	96h	Algae or other aquatic plants	6500- 13000mg/l	1
LC50	96h	Fish	8050mg/L	4
	Endpoint LC50 BCF  Endpoint EC50 EC50(ECx)	Endpoint         Test Duration (hr)           LC50         96h           BCF         1440h           Endpoint         Test Duration (hr)           EC50         48h           EC50(ECx)         Not Available           EC50         96h	Endpoint         Test Duration (hr)         Species           LC50         96h         Fish           BCF         1440h         Fish           Endpoint         Test Duration (hr)         Species           EC50         48h         Crustacea           EC50(ECx)         Not Available         Algae or other aquatic plants           EC50         96h         Algae or other aquatic plants	Endpoint         Test Duration (hr)         Species         Value           LC50         96h         Fish         0.14mg/L           BCF         1440h         Fish         300-640           Endpoint         Test Duration (hr)         Species         Value           EC50         48h         Crustacea         >100mg/l           EC50(ECx)         Not Available         Algae or other aquatic plants         6500-7500mg/l           EC50         96h         Algae or other aquatic plants         6500-13000mg/l

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DO NOT discharge into sewer or waterways

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
4-dodecylphenol, mixture of isomers	HIGH	HIGH
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
4-dodecylphenol, mixture of isomers	MEDIUM (BCF = 850)
ethylene glycol	LOW (BCF = 200)

### Mobility in soil

• • • • • • • • • • • • • • • • • • • •	
Ingredient	Mobility
4-dodecylphenol, mixture of isomers	LOW (Log KOC = 382000)
ethylene glycol	HIGH (Log KOC = 1)

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No evidence of ozone depleting properties were found in the current literature.

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

### Product / Packaging disposal

- ReductionReuse
- Recycling
- Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.

### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7. Maritime transport in bulk according to IMO instruments

### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

•	
Product name	Group
4-dodecylphenol, mixture of isomers	Not Available
ethylene glycol	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
4-dodecylphenol, mixture of isomers	Not Available
ethylene glycol	Not Available

### **SECTION 15 Regulatory information**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

### 4-dodecylphenol, mixture of isomers is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

### ethylene glycol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

Singapore Permissible Exposure Limits of Toxic Substances

### **Additional Regulatory Information**

Not Applicable

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (ethylene glycol)
China - IECSC	Yes

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National Inventory	Status
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	No (4-dodecylphenol, mixture of isomers)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration

### **SECTION 16 Other information**

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Initial Date	29/01/2024

### Other information

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### Ingredients with multiple cas numbers

Name	CAS No
4-dodecylphenol, mixture of isomers	27459-10-5, 74499-35-7, 210555-94-5, 27193-86-8, 104-43-8
ethylene glycol	107-21-1, 1371582-33-0, 2088100-90-5, 37221-95-7, 71767-64-1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication and may be subject to modification from time to time. It is the user's responsibility to verify that this Safety Data Sheet is current prior to use or application. The information given is designed only as a guidance for safe handling, use, application, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.