

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

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

#### 1.1 Product identifier

Trade product name	:	ECOSIL C50A
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#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Industry	:	Industrial
Uses advised against	:	Textile Industry

#### 1.3 Details of the supplier of the safety data sheet

Company	:	ECOCHEM (PVT) LTD 501, Katukurunduwatta Road, Ratmalana, Sri Lanka.
Telephone	:	+94 114 211903
Fax	:	+94 114 547673
Email	:	<a href="mailto:ecochem@ecochemsl.lk">ecochem@ecochemsl.lk</a>

#### 1.4 Emergency telephone number

Emergency Information	:	+94 112 716313
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard class	Hazard category	H-phrases
Hazardous to aquatic environment Long term	Category 3	Harmful to aquatic life with long lasting effects
Skin corrosion/irritation	Category 2	Causes skin irritation
Serious eye damage/eye irritation	Category 1	Causes serious eye damage

Classification according EC Directive (67/548/EEC or 1999/45/EC, as amended)

Hazard category	Hazard symbol	R-phrases
	Harmful	May cause long-term adverse effects in the aquatic environment.
	Irritant	Irritating to skin
	Irritant	Risk of serious damage to eyes

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

### 2.2 Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)  
Hazard Pictograms



Signal Word: Danger

H-Code	:	Hazards Statements
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H412	:	Harmful to aquatic life with long lasting effects

P-Code	:	Precautionary Statements
P280	:	Wear protective gloves/protective clothing/eye protection/face protection.
P310	:	Immediately call a POISON CENTER or doctor/physician.
P302+P352	:	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	:	Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	:	If skin irritation occurs: Get medical advice/attention.
P501	:	Dispose of contents/container to waste disposal.

### 2.3 Other hazards

No Information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not application.

### 3.2 Mixtures

#### 3.2.1 Chemical characterization (preparation)

Polydimethylsiloxane with aminoalkyl groups (emulsion in water)

#### 3.2.2 Hazardous ingredients

CAS No.	Material	Content %	Classification (REGULATION (EC) No 1272/2008)
71750-79-3	Poly(dimethyl)[3-2((aminoethyl)amino)propyl]methysiloxane	< 30	Skin Corrosion /Irritation Category 2; H315 Serious eye damage/eye Irritation, Category 1; H318

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

### ECOSIL C50A

69011-36-5	Tridecanol ethoxylate, branched with 3-5 EO	< 15	Hazardous to aquatic environment Long term/ Chronic, Category 3; H412
112-34-5	Diethyleneglycol monobutylether	< 10	Serious eye damage/eye Irritation, Category 2; H319
9043-30-5	Isotridecyl-hydroxypolyglycolether	< 5	Skin Corrosion /Irritation Category 2; H315 Serious eye damage/eye Irritation, Category 1; H318
112-02-7	Hexadecyltrimethylammoniumchloride	< 0.2	Skin Corrosion /Irritation Category 1; H314
64-19-7	Acetic Acid	<0.05	

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General	:	Take persons to a safe place. Observe self-protection for first aid. Seek medical advice in the event of contact with this substance.
Inhalation	:	Keep the patient calm. Protect against loss of body heat. Seek medical advice and clearly identify substance.
Skin contact	:	Remove contaminated or soaked clothing. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice and clearly identify substance.
Eyes contact	:	Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice and clearly identify substance.
Swallowing	:	If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

#### 4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

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

Further toxicology information in section 11 must be observed.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media	:	not applicable
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Page 3/11

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## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

Extinguishing media which must not be used for safety reasons

: not applicable

### 5.2 Special hazards arising from the substance or mixture

Ambient fire may lead to hazardous fumes. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides , silicon oxides , nitrogen oxides , incompletely burnt hydrocarbons , toxic and very toxic fumes .

### 5.3 Advice for firefighters

Special protective equipment for fire fighting

: Use respiratory protection independent of recirculated air. Keep unprotected persons away.

### 5.4 Additional information

Product does not burn. Use extinguishing measures appropriate to the source of the fire.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

### 6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent /soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

### 6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for



## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

information given on personal protective equipment (section 8) and on disposal (section 13).

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

General Information	:	Always stir well before use.
Advice on safe handling	:	Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8. Keep away from incompatible substances in accordance with section 10.
Precautions against fire and explosion	:	Observe the general rules for fire prevention.

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

Requirements for storage areas and containers	:	Observe local/state/federal regulations.
Advice on common storage	:	Observe local/state/federal regulations.
Further information for storage	:	Store in a dry and cool place. Protect against sun. Protect against frost.
Minimum temperature allowed during storage and transportation	:	0 °C
Maximum temperature allowed during storage and transportation	:	50 °C

#### 7.3 Specific end use(s)

No data available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
	Aerosol - respirable fraction		10.0			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

#### 8.2 Exposure controls

##### 8.2.1 Exposure in the work place limited and controlled

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

### General protection and hygiene measures:

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Remove contaminated, soaked clothing immediately.

### Personal protection equipment:

Eye Protection	:	Tight fitting protective goggles. Provide work station with eye bathing equipment.
Skin Protection	:	Protective clothing.
Hand Protection	:	If dermal exposure cannot be excluded, appropriate gloves and protective clothing have to be worn. Protective gloves made of nitrile rubber. Protective gloves made of butyl rubber. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.
Respiratory Protection	:	In accordance with instructions: not required. In case of aerosol- or mist formation use respiratory protection. combi filter A/P2 .

### 8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	Clear liquid
Colour	:	Colourless
Odour	:	Amine like
pH	:	5.0 ± 0.5
Melting point	:	Not applicable
Boiling point (760 mmHg)	:	Not applicable
Flash point	:	Not applicable
Lower explosion limit (LEL)	:	Not applicable
Upper explosion limit (UEL)	:	Not applicable
Vapour pressure	:	Not applicable
Density at 25°C (1% solution)	:	0.98 ± 0.02
Solubility in water	:	Yes, in any ratio at room temperature
Viscosity at 20°C	:	Not applicable

### 9.2 Other information

No data are available

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

### SECTION 10: Stability and reactivity

#### 10.1-10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

#### 10.4 Conditions to avoid

None known .

#### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

If stored and handled properly: none known . The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### 11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

##### 11.1.2 Acute toxicity

Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures.

#### Acute toxicity estimate (ATE):

ATE<sub>mix</sub> (oral): > 5000 mg/kg

#### Data related to ingredients:

##### aminofunctional polydimethylsiloxane:

Route of exposure	Result / Effect	Species / Test system	Source
Oral	LD <sub>50</sub> : >2000 mg/kg	Rat	Conclusion by analogy

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

### 11.1.3 Skin corrosion/irritation

For this endpoint no toxicological test data is available for the whole product.

**Data related to ingredients:**

**aminofunctional polydimethylsiloxane:**

Result / Effect	Species / Test system	Source
Irritating	Rabbit	Conclusion by analogy

### 11.1.4 Serious eye damage/eye irritation

For this endpoint no toxicological test data is available for the whole product.

**Data related to ingredients:**

**aminofunctional polydimethylsiloxane:**

Result / Effect	Species / Test system	Source
Irritating	Rabbit	Conclusion by analogy

### 11.1.5 Respiratory or skin sensitization

For this endpoint no toxicological test data is available for the whole product.

**Data related to ingredients:**

**aminofunctional polydimethylsiloxane:**

Route of exposure	Result / Effect	Species / Test system	Source
Dermal	Not sensitizing	Guinea-pig; Magnusson-Kligman	Conclusion by analogy OECD 406

### 11.1.6 Germ cell mutagenicity

For this endpoint no toxicological test data is available for the whole product.

**Data related to ingredients:**

**aminofunctional polydimethylsiloxane:**

Result / Effect	Species / Test system	Source
Negative	Mutation assay (in vitro) bacterial cells	Test Report OECD 471

### 11.1.7 Carcinogenicity

For this endpoint no toxicological test data is available for the whole product.

### 11.1.8 Reproductive toxicity

For this endpoint no toxicological test data is available for the whole product.



## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

Date of print : 30.03.2018

Date of last alteration: 30.03.2018

**ECOSIL C50A**

### 11.1.9 Specific target organ toxicity (single exposure)

For this endpoint no toxicological test data is available for the whole product.

### 11.1.10 Specific target organ toxicity (repeated exposure)

For this endpoint no toxicological test data is available for the whole product.

### 11.1.11 Aspiration hazard

For this endpoint no toxicological test data is available for the whole product.

## SECTION 12: Ecological information

### 12.1 Toxicity

For the product as a whole, no test data is available. According to current knowledge adverse effects on water purification plants are not expected.

### 12.2 Persistence and degradability

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

#### Data related to ingredients:

#### aminofunctional polydimethylsiloxane:

#### Biodegradation:

Result	Test system / Method	Source
Good elimination	DOC – decrease	Conclusion by analogy OECD 302B

### 12.3 Bioaccumulative potential

Polymer components: Bioaccumulation is not expected to occur.

### 12.4 Mobility in soil

For the product as a whole, no test data is available.

### 12.6 Other adverse effects

LC-50 Greater than 10mg/l by ATE calculation.

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

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Date of last alteration: 30.03.2018

**ECOSIL C50A**

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### 13.1.1 Material

**Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

##### 13.1.2 Uncleaned packaging

**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

### SECTION 14: Transport information

#### 14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

##### Road ADR:

Valuation	:	Not regulated for transport
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##### Railway RID:

Valuation	:	Not regulated for transport
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##### Transport by sea IMDG-Code:

Valuation	:	Not regulated for transport
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##### Air transport ICAO-TI/IATA-DGR:

Valuation	:	Not regulated for transport
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#### 14.5 Environmental hazards

Hazardous to the environment: no

#### 14.6 Special precautions for user

Relevant information in other sections has to be considered.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Bulk transport in tankers is not intended.

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 453/2010

Version 2

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**ECOSIL C50A**

### SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labeling please refer to section 2 of this document.

### SECTION 16: Other information

#### 16.1 Material

The information contained in this Safety Data Sheet is according to our present knowledge and believed to be true and correct. The manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

#### 16.2 Further information

H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H412	:	Harmful to aquatic life with long lasting effects

- END OF SAFETY DATA SHEET -