

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identification**

Product Description: Maintenance concentrate general

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Cleaning agent
Uses advised against All other uses

1.3. Details of the supplier of the safety data sheet

Company Phadia AB
Rapskatan 7P
P.O. Box 6460
751 37 UPPSALA
Sweden
+46 18 16 50 00
E-mail address safetydatasheet.idd@thermofisher.com

1.4. Emergency telephone number

UK: +44 151 951 3317
Malta: +356 2395 2000
Belgium 070 245 245
Ireland 01 809 2566

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****CLP Classification - Regulation (EC) No 1272/2008****Physical hazards**

Based on available data, the classification criteria are not met

Health hazards

Acute oral toxicity	Category 4
Skin Corrosion/irritation	Category 1

Environmental hazards

Acute aquatic toxicity	Category 1
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For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. Label elements

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Signal Word

Danger

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H400 - Very toxic to aquatic life

P280 - Wear protective gloves/protective clothing/eye protection
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower
P273 - Avoid release to the environment
P391 - Collect spillage

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

3.2. Mixtures

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Cocosalkylbenzyltrimethylammonium chloride	61789-71-7	EEC No. 263-080-8	19	Acute Tox. 4 (H312) Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Acute 1 (H400)
Bis(3-aminopropyl)-dodecylamine	2372-82-9	EEC No. 219-145-8	8	Acute Tox. 4 (H302) Skin Corr. 1B (314) Aquatic Acute 1 (H400)
Cocospentylendiaminebis-guanidinium diacetate	85681-60-3	EEC No. 288-198-7	7	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Acute 1 (H400)

For the full text of the H-statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice

Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Eye Contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Skin Contact	Take off contaminated clothing and shoes immediately. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse mouth.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

No information available.

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

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products

Chlorine, Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides (NO_x).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection. Wash contaminated clothing before reuse.

6.2. Environmental precautions

Dispose of in accordance with local regulations. Avoid release to the environment. Collect spillage.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 5° and 40 °C.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

Component	Italy	Germany	Portugal	The Netherlands	Finland
Bis(3-aminopropyl)-d odecylamin		TWA: 0.05 mg/m ³ (8 Stunden). AGW - exposure factor 8 TWA: 0.05 mg/m ³ (8 Stunden). MAK Höhepunkt: 0.4 mg/m ³			

Component	Austria	Denmark	Switzerland	Poland	Norway
Bis(3-aminopropyl)-d odecylamin			STEL: 0.4 mg/m ³ 15 Minuten TWA: 0.05 mg/m ³ 8 Stunden		

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Bis(3-aminopropyl)-d odecylamin	Skin notation MAC: 1 mg/m ³				

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL) No information available.

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Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Eyewash stations.

Personal protective equipment

Eye Protection Safety glasses with side-shields.

Hand Protection Protective gloves.

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Nitrile rubber	See manufacturers recommendations	-	EN 374	(minimum requirement)

Skin and body protection Long sleeved clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment. Breathing apparatus with filter; gas and type A.

Large scale/emergency use No information available.

Small scale/Laboratory use No information available.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Dispose of contents/containers in accordance with local regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Yellow	
Physical State	Liquid	
Odor	Perfumes	
Odor Threshold	None	
pH	10-11.5	
Melting Point/Range	No data available	
Softening Point	No data available	
Boiling Point/Range	No data available	
Flash Point	No data available	Method - No information available
Evaporation Rate	No data available	
Flammability (solid,gas)	No information available	
Explosion Limits	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	(Air = 1.0)
Specific Gravity / Density	0.985-0.995 g/cm3	
Bulk Density	No data available	
Water Solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/water)		
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	

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Viscosity No data available
Explosive Properties No information available
Oxidizing Properties No information available

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity None known.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing.

10.4. Conditions to avoid To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials Oxidizing agents.

10.6. Hazardous decomposition products Chlorine. Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information Harmful by inhalation, in contact with skin and if swallowed. The product causes irritation of eyes, skin and mucous membranes.

(a) acute toxicity;

Oral

Category 4.

Dermal

Based on available data, the classification criteria are not met.

Inhalation

No data available.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cocosalkylbenzyltrimethylammonium chloride	280-445 mg/kg	rat 1420mg/kg body weight	
Bis(3-aminopropyl)-dodecylamin	rat LD50 280mg/kg (male) rat LD50 245 mg/kg (female)	rat LD50>600mg/kg Rabbit: skin irritation, corrosive.	
Cocospropyldiaminbis-guanidinium diacetat	LD50 rat 500-2000mg/kg	Rabbit: skin irritation, corrosive.	

(b) skin corrosion/irritation; Category 1.

(c) serious eye damage/irritation; Based on available data, the classification criteria are not met.

(d) respiratory or skin sensitization;

Respiratory

No data available.

Skin

Based on available data, the classification criteria are not met.

Component	Test method	Test species	Study result
Cocosalkylbenzyltrimethylammonium chloride			non-sensitising

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Bis(3-aminopropyl)-dodecylamin			non-sensitising
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- (e) germ cell mutagenicity; No data available.
- (f) carcinogenicity; There are no known carcinogenic chemicals in this product.
- (g) reproductive toxicity; No data available.
- (h) STOT-single exposure; No data available.
- (i) STOT-repeated exposure; No data available.
- (j) aspiration hazard; No data available.

Symptoms / effects, both acute and delayed No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Cocosalkylbenzyltrimethylammonium chloride	96h LD50=2.26mg/l (Danio rerio)		96 h EC/LC50=0.67mg/l (Chlorella pyrenoidosa)	
Bis(3-aminopropyl)-dodecylamin		24h EC50=2.21 mg/l (Daphnia magna)		

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

Bioconcentration factor (BCF) Aerobic aquatic biodegradable

Component	log Pow	Bioconcentration factor (BCF)
Cocosalkylbenzyltrimethylammonium chloride		Aerobic aquatic biodegradable

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Endocrine Disruptor Information
Persistent Organic Pollutant
Ozone Depletion Potential

No information available.
No known effect.
No known effect.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Avoid release to the environment.

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Products

Contaminated Packaging Cleaned and empty containers should be taken to local recyclers for disposal.

European Waste Catalogue (EWC) 18 01 06* chemicals consisting of or containing dangerous substances.

Other Information No information available.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number 1760
14.2. UN proper shipping name Corrosive liquid, n.o.s
Technical Shipping Name (N-alkylbenzyltrimethyl ammonium chloride)
14.3. Transport hazard class(es) 8
Subsidiary Hazard Class None
14.4. Packing group III

ADR

14.1. UN number UN1760
14.2. UN proper shipping name Corrosive liquid, n.o.s
Technical Shipping Name (N-alkylbenzyltrimethyl ammonium chloride)
14.3. Transport hazard class(es) 8
Subsidiary Hazard Class None
14.4. Packing group III

IATA

14.1. UN number UN1760
14.2. UN proper shipping name Corrosive liquid, n.o.s
Technical Shipping Name (N-alkylbenzyltrimethyl ammonium chloride)
14.3. Transport hazard class(es) 8
Subsidiary Hazard Class None
14.4. Packing group III

14.5. Environmental hazards Dangerous for the environment.

14.6. Special precautions for user No special precautions required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable, packaged goods.

SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Cocosalkylbenzyltrimethylammonium chloride	263-080-8	-		X	X	-	X	X	X	X	KE-3000 5
Bis(3-aminopropyl)-dodecylamine	219-145-8	-		X	X	-	X	X	X	X	-
Cocospentylendiaminbis-guanidinium diacetat	288-198-7	-		-	-	-	-	-	X	X	KE-1811 3

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National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Cocosalkylbenzyl dimethylammonium chloride	WGK2	
Bis(3-aminopropyl)-dodecylamine	WGK2	

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) is not required.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H312 - Harmful in contact with skin

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H400 - Very toxic to aquatic life

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vpvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development
Aerobic aquatic biodegradable

Key literature references and sources for data

Suppliers safety data sheet, Chemadviser - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - Volatile Organic Compounds

Physical hazards

On basis of test data

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date

27-Jun-2019

Revision Summary

SDS sections updated, 14.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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date of its publication. The information given is designed only as a guidance for safe handling, use, 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

End of Safety Data Sheet