

1. Identification of the Substance and of the Company

Product Name	ImmunoCAP [®] Maintenance Kit
Article Number	10-9476-01
Use of the Preparation	Cleaning of ImmunoCAP [®] instruments

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2. Hazard Identification

Maintenance concentrate	
Health hazards	Corrosive Harmful if swallowed
Environmental hazards	Very toxic to aquatic organisms
Fire and explosion hazards	None
Physical/chemical hazards	Corrosive

Maintenance Anti-Foam	
Health hazards	None
Environmental hazards	None
Fire and explosion hazards	None
Physical/chemical hazards	None

Prepared Maintenance Solution	
Health hazards	The product contains substances with concentrations that are not classified as hazardous to health in concentrations that should be taken into account according to EC directive.
Environmental hazards	The product contains substances with concentrations that are not classified as hazardous to the environment in concentrations that should be taken into account according to EC directive.
Fire and explosion hazards	None
Physical/chemical hazards	None



3. Composition/Information on Ingredients

Preparations contain	CAS No.	EINECS No.	Conc.	Classification For further information, see section 16
<u>Maintenance Concentrate</u>				
Cocosalkylbenzyl-dimethylammonium chloride	61789-71-7	263-080-8	19%	Xn; R21/22 C; R34 N; R50
Bis(3-aminopropyl)-dodecylamin	2372-82-9	219-145-8	8%	C, N, R22,34,50
Cocospropylendiaminbis-guanidinium diacetat	85681-60-3	288-198-7	7%	C, N, R22,34,50
<u>Maintenance Anti-Foam</u>				
Dimethyl-polysiloxane	63148-62-9		20%	
<u>Prepared Maintenance Solution</u>				
Cocosalkylbenzyl-dimethylammonium chloride	61789-71-7	263-080-8	0,3 %	N R 22; R 50
Cocospropylendiaminbis-guanidinium diacetat	85681-60-3	288-198-7	0,1%	C, N, R22,34,50
Bis(3-aminopropyl)-dodecylamin	2372-82-9	219-145-8	0,1%	C R22; C R35; N R50/53

4. First Aid Measures

<u>Maintenance Concentrate</u>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Skin contact	After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Immediately wash with plenty of water, if necessary also inside the clothes. Washing basin for hand wash should be available
Eye contact	In case of contact with eyes, rinse immediately with plenty of water, also under the eyelids. Equipment for tempered flushing the eyes 15 minutes should be available.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. In the event of symptoms refer for medical treatment.
Ingestion	Do not provoke vomiting. Consult physician. Attention in case of vomiting - acute danger of suffocating, produced by foaming ingredients. Rinse mouth. Make drink some glasses of water. The decision whether to provoke vomiting is to be taken by a physician.



<u>Anti-foam</u>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Skin contact	After contact with skin, wash immediately with plenty of water
Eye contact	In case of contact with eyes, rinse immediately with plenty of water.
Inhalation	-
Ingestion:	-
<u>Prepared Maintenance Solution</u>	
Skin contact	After contact with skin, wash immediately with plenty of water.
Eye contact	In case of contact with eyes, rinse immediately with plenty of water.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Ingestion:	Do not provoke vomiting. Consult physician. Attention in case of vomiting - acute danger of suffocating, produced by foaming ingredients. Rinse mouth. Make drink some glasses of water. The decision whether to provoke vomiting is to be taken by a physician.

5. Fire Fighting Measures

<u>Maintenance Concentrate</u> <u>Anti-Foam</u> <u>Prepared Maintenance solution</u>	
Specific hazards	This mixture does not pose a fire hazard. Use extinguishing media appropriate for surrounding fire.
Special exposure hazards arising from the substance, combustible products or resulting gases	Fire may produce: chlorine compounds carbon monoxide (CO), carbon dioxide (CO ₂) and nitrogen oxides (NO _x)
Special protective equipment for firefighters	Use breathing apparatus with independent air supply.



6. Accidental Release Measures

<u>Maintenance Concentrate</u>	
Personal precaution	Ensure adequate ventilation. Wear suitable gloves and eye/face protection.
Environmental precautions	Do not discharge into the drains/surface waters/groundwater. Discharge solution and packaging in a safe way.
Clean-up method –Spillage of	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

<u>Anti-Foam and Prepared Maintenance Solution</u>	
Personal precaution	Ensure adequate ventilation. Wear suitable gloves and eye/face protection.
Environmental precautions	-
Clean-up method – Spillage of prepares Maintenance Solution	Flush into sewer with plenty of water.

7. Handling and Storage

<u>Maintenance Concentrate</u>	
Advice on safe handling	Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	No special protective measures against fire required.
Requirements for storage rooms and vessels	Keep containers tightly closed in a dry, well-ventilated place. Keep at temperatures between 5°C and 40°C. The expiration date for the complete package is stated on the outer label. Stable until the date stated on the label.
Advice on storage compatibility	Incompatible with oxidizing agents.
Further information on storage conditions	Keep away from food, drink and animal feeding stuffs.

<u>Anti-foam</u>	
Advice on safe handling	-
Advice on protection against fire and explosion	No special protective measures against fire required.
Requirements for storage rooms and vessels	Keep in room temperature. Do not refrigerate
Advice on storage compatibility	-
Further information on storage conditions	-



<u>Prepared Maintenance Solution</u>	
Advice on safe handling	Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	No special protective measures against fire required.
Requirements for storage rooms and vessels	Stable one month at room temperature
Advice on storage compatibility	-
Further information on storage conditions	-

8. Exposure Controls/Personal Protection

<u>Maintenance Concentrate</u>	
Occupational exposure limits	No limits available
Occupational exposure control	
General	Arrange working conditions and methods to avoid direct contact with the product. Skin and eye protection required if risk for direct contact with the product. Provide adequate ventilation. Wash hands before breaks and immediately after handling the product.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).
Hand protection	Rubber or plastic gloves.
Material of gloves	Vinyl/rubber gloves
Penetration time of glove material	Gloves resistance is not critical when the product is handled according to "Directions for use".
Skin protection	Long sleeved clothing.
Eye protection	Safety glasses should be used when <u>Maintenance Concentrate</u> is handled. Safety glasses are recommended when <u>Prepared Maintenance Solution</u> is handled. Equipment for tempered flushing the eyes in at least 15 minutes should be available.
Environmental exposure control	<u>Maintenance concentrate</u> should not be disposed with wastewater, when in compliance with local regulations.



9. Physical and Chemical Properties

Property	<u>Maintenance concentrate</u>	<u>Maintenance Anti-Foam</u>	<u>Prepared Maintenance Solution</u>
Form	Liquid	Liquid	Liquid
Colour	yellow	opal	Clear
Odour	perfumed (scented)		
pH	10 – 11,5		
Boiling point			
Flash point:	N/A	N/A	N/A
Upper/Lower Explosion limit	N/A	N/A	N/A
Vapour pressure:			
Density			
Solubility in water	Completely soluble	Completely soluble	Completely soluble
Viscosity			
Other information			

10. Stability and Reactivity

<u>Maintenance concentrate</u>	
Stability	Stable at normal conditions. Do not use beyond expiration date.
Conditions to avoid	To avoid thermal decomposition, do not overheat.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Strong heating may release toxic gases that contain SO ₂ , nitrogen oxides (NO _x), Chlorine compounds

<u>Anti foam</u>	
Stability	Stable at normal conditions. Do not use beyond expiration date.
Conditions to avoid	Do not refrigerate
Materials to avoid	-
Hazardous decomposition products	-

<u>Maintenance solution</u>	
Stability	One month
Conditions to avoid	To avoid thermal decomposition, do not overheat.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Strong heating may release toxic gases that contain SO ₂ , nitrogen oxides (NO _x), Chlorine compounds



11. Toxicological Information

Maintenance concentrate	Experiences made from practice
Inhalation	Harmful by inhalation
Ingestion	Harmful if swallowed
Skin and eye contact	The product causes burns of eyes, skin and mucous membranes.

Maintenance Anti-Foam	
Inhalation	This preparation is not considered to be harmful by inhalation.
Ingestion	This preparation is not considered to be harmful by ingestion
Skin and eye contact	The product causes burns of eyes, skin and mucous membranes.

Prepared Maintenance Solution	
Inhalation	This preparation is not considered to be harmful by inhalation.
Ingestion	This preparation is not considered to be harmful by ingestion
Skin and eye contact	The product causes burns of eyes, skin and mucous membranes.

Maintenance concentrate

Rubrik	Component	Values from literature
Toxicokinetics, metabolism and distribution		-
Acute toxicity:	61789-71-7 85681-60-3 2372-82-9	Oral: LD50 at 280-440mg/kg Dermal: LD50 rat 1420mg/kg body weight Oral: LD50 rat 500-2000mg/kg Skin irritation: rabbit Corrosive: Oral: rat LD50 280mg/kg (male) Oral: rat LD50 245mg/kg (female) Dermal: rat LD50 > 600mg/kg Skin irritation: rabbit Corrosive
Sensitisation	61789-71-7 2372-82-9	Non-sensitising Non-sensitising
Repeated dose toxicity		-
Carcinogenicity:	Active substances	Product does not contain any components known to have carcinogenic effect.
Reproductive toxicity:	Active substances	Product does not contain any components known to be toxic to the reproductive system and having fertility effect.
Mutagenicity:	Active substances	Product does not contain any components known to have mutagenic effect.
Other information		Information given is based on data from raw material



12. Ecological Information

Maintenance Concentrate

General information	Component	
		The possible eco-toxic effects of this product are not fully characterized. Data in this table comes from literature.
Exotoxicity	61789-71-7 2372-82-9	Aquatic toxicity, 96h EC/LC50= 0.67mg/l, Green alga (<i>Chlorella pyrenidosa</i>) Aquatic toxicity, 96h LD50 = 2.26mg/l, zebra fish 24h EC50 =2.21 mg/l (<i>Daphnia magna</i>)
Mobility		No data is available; the product is soluble in water.
Persistence and degradability	61789-71-7	Aerobic aquatic biodegradable
Bioaccumulative potential		No data is available.
Other adverse effects		No data is available.

13. Disposal Considerations

Maintenance concentrate	Do not disposed with wastewater, discharge product and packaging in a safe way, in compliance with local regulations.
Maintenance Anti-foam	Maintenance Anti-foam can be disposed with wastewater when, in compliance with local regulations.
Prepared Maintenance solution	Prepared Maintenance solution can be disposed with wastewater when, in compliance with local regulations.
Emptied packaging	Packaging waste made of plastic and paper boxes can be sorted and recycled according to local regulations.
Emptying instruction	Plastic bottles empties well, free of drip and hands over to plastic recycling. Paper boxes are hand over to relevant material recycling.
European waste catalogue	18 01 06 chemicals consisting of or containing dangerous substances.



14. Transport Information

Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)	
Identification	CORROSIVE, LIQUID, N.O.S. (N-alkylbenzyltrimethyl ammonium chloride)
UN-No.	1760
Class	8
PG	III
Hazard No.	8
Remarks	LQ 19: combination packaging: 3 1 / 12 1; trays: 1 1 / 12 1 (20 kg total gross mass)
Marine transport IMDG/GGV See	
Proper shipping name	CORROSIVE, LIQUID, N.O.S. (N-alkylbenzyltrimethyl ammonium chloride)
UN-No.	1760
Class	8
PG	III
Marine pollutant	No
EmS-No.	8-06
Remarks	Limited quantities (chapter 3.4): combination packaging: 1 1 / 30 kg (total gross mass); trays: 1 1 / 20 kg (total gross mass)
Air transport ICAO/IATA	
Proper shipping name	CORROSIVE, LIQUID, N.O.S. (N-alkylbenzyltrimethyl ammonium chloride)
UN/ID-No.	1760
Class	8
PG	III
Remarks	PAC 818 (5 L), CAC 820 (60 L) Ltd Qty:0,5 L/ 1L PIY818

15. Regulatory Information

Classification according to European directive on classification of dangerous preparations 1999/45/EEC:

Maintenance concentrate

Benzalkonium chloride
Bis(3-aminopropyl)-dodecylamin
Cocosporylendiaminbis-guanidinium diacetat

Hazard Symbols and Designations

R22 Harmful if swallowed
C Corrosive
R34 Causes burns
N Very toxic to aquatic organisms
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.



16. Other Information

Classification and R-phrases used in section 3.

Xn; R21/22 Harmful; Harmful in contact with skin and if swallowed

C; R34 Corrosive; Causes burns

N; R50 Very toxic to aquatic organisms

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