1

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

Product identifier

Permanon Omega

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

Details of the supplier of the safety data sheet

Company name:	Permanon GmbH	
Street:	Winterstetten 53	
Place:	D-88299 Leutkirch	
Telephone:	+49(0)7567/1563	Telefax: +49(0)7567/1031
e-mail:	info@permanon.de	
Contact person:	S. Krücken	Telephone: +49(0)7567/1563

Emergency telephone: +49(0)7567/1033

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Irritant
R-phrases:
Irritating to skin.
Risk of serious damage to eyes.

Label elements

Danger symbols: Xi - Irritant

Xi - Irritant

R phrases

38	Irritating to skin.
41	Risk of serious damage to eyes.

S phrases

02	Keep out of the reach of children.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
39	Wear eye/face protection.
46	If swallowed, seek medical advice immediately and show this container or label.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

EC No. / CAS No. / Index No. / REACH No.	Chemical name / Classification / GHS classification	Quantity
231-633-2 / 7664-38-2 / 015-011-00-6	phosphoric acid ... %, orthophosphoric acid ... % / C R34 / Skin Corr. 1B; H314	15 - 20 %

201-196-2	lactic acid	15 - 20 %
79-33-4	Xi R38-41	
	Skin Irrit. 2, Eye Dam. 1; H318 H315	
	alkyl polyethylene glycol ether	1 - 5 %
	Xn R22-41	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
263-058-8	cocoamidopropyl betaine	1 - 5 %
61789-40-0	Xi R41	
	Eye Dam. 1; H318	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

General information

Remove from exposure, lie down. Take off all contaminated clothing immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.

After contact with skin

Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If symptoms persist, call a physician.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth.
If swallowed, seek medical advice immediately and show this container or label.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

water spray, carbon dioxide (CO2), alcohol-resistant foam , dry chemical
The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Heating or fire can release toxic gas. oxides of phosphorus, Carbon monoxide, carbon dioxide (CO2).

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Special protective equipment for fire-fighters
Use water spray to cool unopened containers.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
High risk of slipping due to leakage/spillage of product.
Ensure adequate ventilation.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Clean-up methods - small spillage Dilute with plenty of water.
Clean-up methods - large spillage Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Treat recovered material as described in the section "Disposal considerations".

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid formation of aerosol. Avoid contact with skin, eyes and clothing.
Keep container tightly closed.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in original container.

Advice on storage compatibility

Keep away from food and drink.
Do not store with: Oxidizing agent.

Further information on storage conditions

Protect from frost, heat and sunlight.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Avoid contact with the skin and the eyes.
Remove and wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday.

Respiratory protection

Breathing apparatus needed only when aerosol or mist is formed.
Half mask with a particle filter P2 (EN 143).

Hand protection

As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.
Polychloropren - CR (0,5 mm)

Nitrilkautschuk/Nitrillatex - NBR (0,35 mm)
Butylkautschuk - Butyl (0,5 mm)
Fluorkautschuk - FKM (0,4 mm)
Polyvinylchlorid - PVC (0,5 mm)

Eye protection

tightly fitting safety goggles

Skin protection

protective suit: Acid-resistant.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	liquid
Colour:	red
Odour:	characteristic

		Test method
pH-Value (at 20 °C):	1,4- 1,8 (10%ig)	
Changes in the physical state		
Melting point:	not determined	
Boiling point:	not determined	
Flash point:	not applicable	
Explosive properties		
Not explosive		
Density (at 20 °C):	ca. 1,159 g/cm³	
Water solubility: (at 20 °C)	consolute	

SECTION 10: Stability and reactivity

Reactivity

Incompatible with bases. sodium hypochlorite.

Chemical stability

No decomposition if used as directed.

Conditions to avoid

Direct sources of heat.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
7664-38-2	phosphoric acid ... %, orthophosphoric acid ... %				
	Acute oral toxicity	LD50	1530 mg/kg	Ratte	
	Acute dermal toxicity	LD50	2740 mg/kg	Kaninchen	
79-33-4	lactic acid				

	Acute oral toxicity	LD50	3730 mg/kg	Ratte
	Acute dermal toxicity	LD50	> 2000 mg/kg	Kaninchen
	alkyl polyethylene glycol ether			
	Acute oral toxicity	LD50	300-2000 mg/kg	Ratte
61789-40-0	cocoamidopropyl betaine			
	Acute oral toxicity	LD50	> 2000 mg/kg	Ratte

Irritation and corrosivity

Irritating to skin.
Inhalation of mist causes irritation of respiratory system.
Risk of serious damage to eyes.

SECTION 12: Ecological information

Toxicity

CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
79-33-4	lactic acid				
	Acute fish toxicity	LC50	320 mg/l	Danio rerio	96
	Acute algae toxicity	ErC50	3500 mg/l	Pseudokirchneriella subcapitata	72
	Acute crustacea toxicity	EC50	240 mg/l	Daphnia magna	48
	alkyl polyethylene glycol ether				
	Acute fish toxicity	LC50	10- 100 mg/l	Brachydanio rerio	96
	Acute algae toxicity	ErC50	10- 100 mg/l	Scenedesmus subspicatus	72
	Acute crustacea toxicity	EC50	10- 100 mg/l	Daphnia magna	48
61789-40-0	cocoamidopropyl betaine				
	Acute fish toxicity	LC50	1-10 mg/l	Cyprinus carpio	96
	Acute algae toxicity	ErC50	1-10 mg/l	scenedesmus subspicatus	72
	Acute crustacea toxicity	EC50	1-10 mg/l	Daphnia magna	48

Persistence and degradability

Contained tenside is more than 90% biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
79-33-4	lactic acid	-0,62

Further information

Neutralization is normally necessary before waste water is discharged into water treatment plants.

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

In accordance with local and national regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging

water.
Completely emptied packages may be recycled.
Dipose of packages that cannot be cleaned.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not classified as dangerous in the meaning of transport regulations.

Marine transport

Other applicable information (marine transport)

Not classified as dangerous in the meaning of transport regulations.

Air transport

Other applicable information (air transport)

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

22	Harmful if swallowed.
34	Causes burns.
38	Irritating to skin.
41	Risk of serious damage to eyes.

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)