

Safety data sheet according (EC) No. 1907/2006

Frisch Labor Systems GmbH, D-88179 Oberreute

Date: 12.11.2012

Print Date: 07.02.2013

Comfort Clean Cleansing Kits (Art-No. 101800, 101810) Page: 1 of 7

1. Identification of the substance/Preparation and of the Company/Undertaking

Identification of the substance/preparation

Product name: Comfort Clean Cleansing Kits

Index-No. Not applicable.

EG-No. Not applicable.

CAS-No. Not applicable.

REACH Registration-No. Not applicable.

Use of the substance/preparation

Identified use: Cleaning agent, medical device

Company/undertaking identification:

Frisch Labor Systems GmbH

Lenzhalde 4

D-88179 Oberreute, Germany

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2. Hazards Identification

Hazards description

Regulation (EC) No.1272/2008 (CLP)

Hazard classes/Hazard categories	Hazard statement	Classification procedure
Causes serious eye irritation	H319	Calculation method

67/548/EEC or 1999/45/EC

Hazards characteristic	R-phrases
Xn; C	R22; R41

Information pertaining to special danger for humans and environment

3. Composition/Information on Ingredients

Substance related informations

Chemical name:	Potassiummonopersulfate	Index-No:	-
CAS-No:	70693-62-8	EINECS-No:	274-778-7
Amount(%)	25-50%	REACH-Reg.No:	-
Classification acc.(EC)No.1272/2008 (CLP):			
Classification acc. 67/548/EEC:	C, R22-34-52		

Chemical name:	Sodium Lauryl Sulfate	Index-No:	-
CAS-No:	151-21-3	EINECS-No:	205-788-1
Amount(%)	15-25%	REACH-Reg.No:	-
Classification acc.(EC)No.1272/2008 (CLP):			
Classification acc. 67/548/EEC:	F, Xn, R11-21/22-37/38-41C, R22-34-52		

4. First Aid Measures

General information: Take off contaminated clothing immediately. Remove from exposure. If you feel unwell, seek medical advice and show this container or label.

In case of inhalation: Ensure of fresh air/remove to fresh air.

In case of skin contact: In case of contact with skin wash off immediately with plenty of water.

In case of eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion: In case of ingestion rinse out mouth and give plenty of water to drink. Do not induce vomiting. Seek medical advice immediately.

Information to physician

Symptoms: Not determined.

Hazards: -

Treatment: Treat symptomatically.

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5. Fire-Fighting Measures

Extinguishing media

Suitable: Dry powder, sand, foam, water jet spray.

Not to be used: Full water jet.

Special exposure hazards arising from the substance or preparation itself, combusting products, resulting gases: In case of fire hazardous vapours/gases could be generated: sulphur oxide (SO₂), carbon monoxide (CO), carbon dioxide (CO₂).

Special protective equipment for fire-fighters: Do not inhale combustion and/or explosion gases. Use self-contained breathing apparatus. Avoid skin contamination, wear safety clothing and maintain a safety distance from hazard zone.

Additional information: Cool containers at risk with water spray jet. Fire residues and contaminated fire fighting water must be disposed of in accordance with local legislation.

6. Accidental Release Measures

Personal precautions: Eliminate all sources of ignition. Ensure sufficient ventilation. Wear protective goggles, gloves and clothing.

Environmental precautions: Avoid penetration of product and large quantities of contaminated water into soil or surface water.

Methods for cleaning up: Large quantities: clean up mechanically, prevent dust formation. Dispose in accordance with local legislation. Wash off residues with water.

7. Handling and storage

Handling

Advice on safe handling: Ensure minimum hygienic standards according to TRGS 500. Do not leave containers open.

Precautions against fire and explosion: Keep away from all sources of ignition.

Measures to prevent aerosol/dust generation: Not applicable.

Measures to prevent the environment: Keep in original container only.

Storage

Technical measures and storage conditions: Store in a cool and dry place at a temperature from 5 to 25°C. Protect from direct sunlight and heat.

Requirements for storage rooms and vessels: Store at a place with solvent-resistant floor or in a catch basin to avoid contamination of ground water.

Packaging materials: Store in containers corresponding to original units.

Hints on storage assembly: No storage assembly together with medicines, foodstuffs or animal fodder. No storage assembly together with reducing and/or combustible agents.

Storage class

Specific uses

Industrial sector specific solutions: Cleansing from dentures.

8. Exposure Controls/Personal Protection

Exposure limit values: Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring :

Limit value type	Substance name	EINECS-No	CAS-No	Occupational exposure limit value		Recommended monitoring procedures	Source
				Long term	Short term		
AGW (DE)	Potassium-monopersulfate	274-778-7	70693-62-8	3mg/m ³		TRGS 900	
AGW (DE)	Sodium Lauryl Sulfate	205-788-1	151-21-3	3mg/m ³			

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Limit value type	Substance name	EINECS-No	CAS-No	Occupational exposure limit value		Recommended monitoring procedures	Source
				Long term	Short term		
OEL (EU)	Potassium-monopersulfate	274-778-7	70693-62-8	1mg/m ³			
OEL (EU)	Sodium Lauryl Sulfate	205-788-1	151-21-3	3mg/m ³			

Exposure controls

Technical measures to prevent exposure: Engineering measures and applications should be taken before personal protection equipment is necessary. Ensure good ventilation, this can be achieved by suction or general purification of exhaust air.

Personal protection equipment

Respiratory protection: If occupational exposure limits are exceeded, wear an adequate respiratory protection: full or half mask with filter.

Hand protection: Wear solvent- and alkali-resistant protection gloves according to EN 374.

Eye protection: Wear glasses with side shields according to EN 166:2001.

Skin protection: Wear impervious long sleeves and pants when handling this bulk.

9. Physical and Chemical Properties

General physical and chemical properties

	Value	Method	Remark
Appearance			
- Physical state:	Tablet	BMP PR RT 2	
- Colour:	White/blue	BMP PR RT 2	
- Odour:	Minty fresh	BMP PR RT 2	
PH-value:	5,5 – 7,5 (2,7g/150ml)	DIN 19268	
Breaking strength (N):	71 – 120 N	BMP PA 024	
Boiling point/range (°C):	Not determinated.		
Flash point (°C):	Not determinated.	ISO 1523	
Ignition temperature (°C):	Not determinated.		
Vapour pressure (°C):	Not determinated.		
Density (g/cm³):	Not applicable.	ISO 2811-1	
Bulk density (kg/m³):	Not applicable.		
Water solubility (g/l):	Soluble.		
n-Octanol/water (logP_{o/w}):	Not applicable.		
Viscosity, dynamic (mPa*s):	Not applicable.		
Lower explosion limit (Vol%):	Not determinated.		
Upper explosion limit (Vol%):	Not determinated.		
Auto ignition temperature (°C):	Not determinated.		
Oxidising properties:	Yes.		
Other information:	Additional physio-chemical data is not collected.		

10. Stability and Reactivity

Conditions to avoid: Avoid moisture, heat, flames, sparks and other forms of ignition. Keep away from combustible material.

Materials to avoid: Reacts with water, acids and combustible materials.

Hazardous decomposition products: Oxygen, carbon dioxide.

11. Toxicological Information

There are no data for the formulation. The information included in this section describes the potential hazards on the individual ingredients.

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Acute effects:

Compound	Type	Route	Species	Dosage
Potassiummonopersulfate	LD50	Oral	Rat	2250 mg/kg
Sodium Lauryl Sulfate	LD50	Oral	n.d.	2000 mg/kg

Irritant and corrosive effects	Evaluation	Species	Method	Remark
Primary irritation to skin:	May cause eye burns based on the components			
Irritation to eyes:	May cause eye burns based on the components			
Irritation to respiratory tract:	Inhalation of dust may cause burns of respiratory tract and mucous membranes based on the components.			

Sensitisation	Evaluation	Species	Method	Remark
In case of skin contact:	No data available			
In case of inhalation	No data available			

Repeated dose toxicity (sub-acute, sub-chronic chronic)	Effect dose Value	Exposure time period	Species	Method	Evaluation	Remark
Sub-acute oral			No data available			
Sub-acute dermal			No data available			
Sub-acute inhalative			No data available			
Sub-chronical oral			No data available			
Sub-chronical dermal			No data available			
Sub-chronical inhalative			No data available			
Chronical oral			No data available			
Chronical dermal			No data available			
Chronical inhalative			No data available			

CMR Effects						
Carcinogenicity:			No data available			
In-vitro mutagenicity:			No data available			
Genotoxicity:			No data available			
In-vivo-Mutagenicity:			No data available			
Toxicity of reproduction:			No data available			

12. Ecological information

Eco toxicity

Aquatic toxicity		Exposure time	Species	Method	Evaluation	Remark
Acute fish toxicity	LD50	96h			No data available	
Acute daphnia toxicity	EC50	48h			No data available	
Acute algae toxicity	IC50	72h			No data available	

Mobility: Known or predicted distribution to environmental compartments.

Surface tension:

Value	(°C)	Concentration	Method	Remark
		No data available		
		No data available		
		No data available		

Persistence and degradability

Abiotic degradability:

Half time	Method	Evaluation	Remark
Sea-water		No data available	
Fresh-water		No data available	
Air		No data available	
Soil		No data available	

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Biodegradation:

Degradation rate (%)	Time (d)	Method	Evaluation	Remark
			No data available	
			No data available	
			No data available	
			No data available	

Partition coefficient n-octanol/water (log K_{ow}):

Value	Concentration	ph-value	Method	Evaluation	Remark
				No data available	
				No data available	
				No data available	

Bioconcentration factor (BCF):

Value	Species	Method	Evaluation	Remark
			No data available	
			No data available	
			No data available	

Long term ecotoxicity	Effect dose	Exposure time	Species	Method	Evaluation	Remark
Longterm fish toxicity	LC50				No data available	
Chronic daphnia toxicity	EC50				No data available	

Other adverse effects

Further ecological information: Releases to the environment should be avoided.

13. Disposal Considerations

Appropriate disposal/product: Observe all local and national regulations when disposing of this material. When exposed to moisture product will liberate oxygen gas which can cause a fire.

Waste code/waste designations according to EWC/AVV: 60314

Appropriate packaging: Uncontaminated packaging may be taken for recycling. Contaminated packaging should be disposed as for product.

Additional information

14. Transport information

Land transport (ADR/RID/GGVSE)

Land transport	
Official transport designation:	Not regulated
Class:	
Classification code:	
UN-No:	
Packing group:	
Hazard label:	
Tunnel restriction code:	
Special provisions :	

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Sea transport (IMDG-Code/GGVSee)

Land transport	
Official transport designation:	Not regulated
Class:	
Classification code:	
UN-No:	
Packing group:	
Hazard label:	
Tunnel restriction code:	
Special provisions :	


Air transport (ICAO-IATA/DGR)

Air transport	
Proper shipping name:	Not regulated
Class:	
UN-No:	
Packing group:	
Special provisions :	

15. Regulatory information

EU regulations

Labelling (EC) No. 1272/2008	
Hazard components for labelling:	Potassiummonopersulfate
Signal words:	Exclamation Mark

Hazard pictograms:	
Hazard statements:	R22: Harmful if swallowed. R36: Irritating to eyes.
Precautionary statements:	S1: Keep locked up. S2: Keep out of the reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S46: If swallowed, seek medical advice immediately and show this container or label. S45: In case of accident or if you feel unwell, seek medical advice immediately. (Show the label)
Supplement Hazard information	
Special rules for Supplemental label	
Elements for certain mixtures:	

Authorisation and/or restrictions on use

Authorisations:	
Restrictions on use:	

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National regulations (Germany)

Restriction of occupation:	
Störfallverordnung (12.BImSchV):	
Wassergefährdungsklasse (WGK):	
Technische Anleitung Luft (TA Luft):	
Other regulations, restrictions and Prohibition regulations:	

16. Other information

Relevant R- and H-phrases (number and full text)

R-phrases:	R8: Contact with combustible material may cause fire.
	R11: Highly flammable.
	R21: Harmful in contact with skin.
	R22: Harmful if swallowed.
	R34: Causes burns.
	R37: Irritating to respiratory system.
	R38: Irritating to skin.
	R41: Risk of serious damage to eyes.
	R52: Harmful to aquatic organisms.
	R61: May cause harm to the unborn child.
	R62: Possible risk of impaired fertility.
S-phrases:	S7: Keep container tightly closed.
	S16: Keep away from sources of ignition. No smoking.
	S17: Keep away from combustible material.
	S22: Do not breathe dust.
	S24: Avoid contact with skin.
	S25: Avoid contact with eyes.
	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28: After contact with skin, wash immediately with plenty of water.
	S36: Wear suitable protective clothing.
	S37: Wear suitable gloves.
	S38: In case of insufficient ventilation, wear suitable respiratory equipment.
	S39: Wear eye/face protection.
	S45: In case of accident or if you feel unwell, seek medical advice immediately. (Show the label)
	S46: If swallowed, seek medical advice immediately and show this container or label.

Disclaimer: The information, specifications, procedures, methods and recommendations herein are presented in good faith, are believed to be accurate and reliable, but may well be incomplete and/or not applicable to all conditions or situations that may exist or occur. No representation, guarantee or warranty is made as to the accuracy, reliability or completeness of said information, specifications, procedures, methods and recommendations or that the application or use of any of the same will avoid hazards, accidents, losses, damages or injury of any kind to persons or property or that the same will not infringe patents or others or give desired results. Readers are cautioned to satisfy themselves as to the suitability of said information, specifications, procedures, methods and recommendations for the purposes intended prior to use.