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SAFETY DATA SHEET

KLEEN MCT515E (MemKare KL 12)

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

1.1. Product identifier

Trade name or designation of the mixture KLEEN MCT515E (MemKare KL 12)

Date of first issue 20/11/2015

Version number 3.3

Revision date 14/06/2021

Supersedes date 12/12/2019

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

Identified uses Membrane cleaner

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,

Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,

Tashkent Region,

Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Corrosive to metals Category 1 H290 - May be corrosive to metals.

Health hazards

Skin corrosion/irritation Category 1 H314 - Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye damage.

Reproductive toxicity (the unborn child) Category 1B H360D - May damage the unborn child.



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Hazard summary May cause reproductive effects. Prolonged exposure may cause chronic effects. Occupational exposure to the substance or mixture may cause adverse health effects. May be corrosive to metals. Causes severe skin burns and eye damage.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 9-Octadecenoic acid (Z)-, sulfonated, potassium salts, N-hydroxyethylenediamine triacetic acid trisodium salt, Sodium hydroxide

Hazard pictograms



Signal word Danger

Hazard statements

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H360D May damage the unborn child.

Precautionary statements

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTRE/doctor.

Storage Not available.

Disposal Not available.

Supplemental label information None.

2.3. Other hazards The classification as corrosive is due to the extreme pH. Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description Aqueous alkaline solution of organic and inorganic salts

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
N-hydroxyethylenediamine triacetic acid trisodium salt	5 - < 10	139-89-9 205-381-9	01-2119972845-22	-	
Classification:	Acute Tox. 4;H302, Eye Dam. 1;H318				
Potassium carbonate	5 - < 10	584-08-7 209-529-3	01-2119532646-36	-	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335				
Sodium carbonate	3 - < 5	497-19-8 207-838-8	01-2119485498-19	011-005-00-2	
Classification:	Eye Irrit. 2;H319				
9-Octadecenoic acid (Z)-, sulfonated, potassium salts	1 - < 3	68609-93-8 271-843-1	01-2120063124-67	-	
Classification:	Eye Irrit. 2;H319, Repr. 1B;H360D				



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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Sodium hydroxide	0,5 - < 2	1310-73-2 215-185-5	01-2119457892-27	011-002-00-6	
Classification:	Met. Corr. 1;H290, Skin Corr. 1A;H314				
Trisodium nitrilotriacetate	<= 1	5064-31-3 225-768-6	01-2119519239-36	607-620-00-6	
Classification:	Acute Tox. 4;H302, Eye Irrit. 2;H319, Carc. 2;H351				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Ingestion

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Only for industrial users

Shelf life 720 days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	STEL	2 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Workers

Components	Value	Assessment factor	Notes
9-Octadecenoic acid (Z)-, sulfonated, potassium salts (CAS 68609-93-8)			
Long-term, Systemic, Dermal	14 mg/kg		
Long-term, Systemic, Inhalation	9,87 mg/m3		
N-hydroxyethylenediamine triacetic acid trisodium salt (CAS 139-89-9)			
Long-term, Local, Inhalation	10 mg/m3		
Long-term, Systemic, Inhalation	88 mg/m3	5	



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Potassium carbonate (CAS 584-08-7)		
Long-term, Local, Dermal	16 mg/cm ²	5
Long-term, Local, Inhalation	10 mg/m ³	2
Sodium carbonate (CAS 497-19-8)		
Long-term, Local, Inhalation	10 mg/m ³	
Sodium hydroxide (CAS 1310-73-2)		
Long-term, Local, Inhalation	1 mg/m ³	1
Short-term, Local, Dermal	2 mg/kg/day	
Short-term, Local, Inhalation	2 mg/m ³	
Trisodium nitrilotriacetate (CAS 5064-31-3)		
Long-term, Systemic, Inhalation	3,5 mg/m ³	18
Short-term, Systemic, Inhalation	5,25 mg/m ³	12

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
9-Octadecenoic acid (Z)-, sulfonated, potassium salts (CAS 68609-93-8)			
Freshwater	3 µg/l		
Intermittent releases	30 µg/l		
Marine water	0,3 µg/l		
Sediment (freshwater)	0,25 mg/kg		
Sediment (marine water)	25 µg/kg		
Soil	0,05 mg/kg		
STP	0,7 mg/l		
N-hydroxyethylenediamine triacetic acid trisodium salt (CAS 139-89-9)			
Freshwater	2500 µg/l	10	
Intermittent releases	1920 µg/l	100	
Marine water	250 µg/l	100	
Sediment (freshwater)	107 µg/kg		
Sediment (marine water)	10,7 µg/kg		
Soil	840 µg/kg	100	
STP	50 mg/l	10	
Trisodium nitrilotriacetate (CAS 5064-31-3)			
Freshwater	0,93 mg/l	10	
Intermittent releases	0,915 mg/l	100	
Marine water	0,093 mg/l	100	
Secondary poisoning	0,2 mg/kg	300	
Sediment (freshwater)	3,64 mg/kg		
Sediment (marine water)	0,364 mg/kg		
Soil	0,182 mg/kg		
STP	540 mg/l	1	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Splash proof chemical goggles.
CEN : EN 166

Skin protection



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Previous Date: 12/12/2019

- Hand protection	Gauntlet type neoprene gloves (Protection against unintentional short-term contact) Gauntlet type nitrile gloves (Protection against unintentional short-term contact) Gauntlet type rubber gloves (Protection against unintentional short-term contact) Coating thickness: 0.5 mm Penetration time: > 480 min CEN : EN 374-1/2/3/4; EN 420
- Other	Wear appropriate chemical resistant clothing. CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. In case of insufficient ventilation, use a breathing mask with filter type: A2-P2 CEN : EN 140; EN 143; EN 149
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Colour	Light yellow to amber
Physical state	Liquid
Odour	Mild
Odour threshold	Not available.
pH (concentrated product)	13,4
pH in aqueous solution	11,9 (5% SOL.)
Melting point/freezing point	-5 °C
Initial boiling point and boiling range	> 100 °C
Flash point	Not applicable.
Evaporation rate	< 1 (Ether = 1)
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	18 mm Hg
Vapour pressure temp.	21 °C
Vapour density	< 1 (Air = 1)
Relative density	1,25
Relative density temperature	21 °C
Solubility	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	23 cps
Viscosity temperature	21 °C
Explosive properties	Not explosive.

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Oxidising properties Not oxidising.

9.2. Other information

Pour point -2 °C
Shelf life 720 days
VOC 0 % (Estimated)

SECTION 10: Stability and reactivity

10.1. Reactivity May be corrosive to metals.
10.2. Chemical stability Material is stable under normal conditions.
10.3. Possibility of hazardous reactions Hazardous polymerisation does not occur.
10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
10.5. Incompatible materials Strong acids. Strong oxidising agents. Metals.
10.6. Hazardous decomposition products Nitrogen oxides (NOx). Sulphur oxides. Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product	Test Results
KLEEN MCT515E (MemKare KL 12) (Mixture)	Acute Dermal LD50 Rabbit: > 2000 mg/kg (Calculated according to GHS additivity formula) Acute Inhalation LC50 Rat: > 20 mg/l 4 hours (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: > 2000 mg/kg (Calculated according to GHS additivity formula)
Components	Test Results
Sodium hydroxide (1310-73-2)	Acute Dermal LD50 Rabbit: 1350 mg/kg Acute Oral LD50 Rabbit: > 500 mg/kg
N-hydroxyethylenediamine triacetic acid trisodium salt (139-89-9)	Acute Inhalation LC50 Rat: > 10,054 mg/l 4 hour Acute Oral LD50 Rat: 1780 mg/kg
Sodium carbonate (497-19-8)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Oral LD50 Rat: 2800 mg/kg
Trisodium nitrilotriacetate (5064-31-3)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Inhalation LC50 Rat: > 5 mg/l 4 Hours Acute Oral LD50 Rat: 1100 mg/kg
Potassium carbonate (584-08-7)	Acute Oral LD50 Rat: 1870 mg/kg

Acute toxicity

Skin corrosion/irritation Causes severe skin burns and eye damage.
Serious eye damage/irritation Causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.
Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Reproductive toxicity May damage the unborn child.
General information Occupational exposure to the substance or mixture may cause adverse effects.



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Information on likely routes of exposure

Ingestion	Causes digestive tract burns.
Inhalation	May cause irritation to the respiratory system.
Skin contact	This product is not expected to cause skin sensitisation. Causes severe skin burns.
Eye contact	Causes serious eye damage.

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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

Mixture versus substance information No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

12.2. Persistence and degradability Readily biodegradable. (Refers to active component: 9-Octadecenoic acid (Z)-, sulfonated, potassium salts)

- COD (mgO2/g)	149
- TOC (mg C/g)	56

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)
Trisodium nitrilotriacetate -10,1

Bioconcentration factor (BCF)
Trisodium nitrilotriacetate 3

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Summary The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. According to Hazardous Waste Regulations.

European List of Wastes (LoW) code recommendation : 15 01 10
15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.
15 01 Packaging (including separately collected municipal packaging waste).
15 01 10 Packaging containing residues of or contaminated by dangerous substances.
Depending on the origin and state of the waste, other codes may be applicable too.



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Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. According to Hazardous Waste Regulations.

European List of Wastes (LoW) code recommendation : 16 03 05
16 Wastes not otherwise specified in the list.
16 03 Off-specification batches and unused products.
16 03 05 Organic wastes containing dangerous substances.
Depending on the origin and state of the waste, other codes may be applicable too.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1760
14.2. UN proper shipping name Corrosive liquid, n.o.s. (N-hydroxyethylenediamine triacetic acid trisodium salt, Sodium hydroxide, Mixture)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
Tunnel restriction code (E)
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number UN1760
14.2. UN proper shipping name Corrosive liquid, n.o.s. (N-hydroxyethylenediamine triacetic acid trisodium salt, Sodium hydroxide, Mixture)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN1760
14.2. UN proper shipping name Corrosive liquid, n.o.s. (N-hydroxyethylenediamine triacetic acid trisodium salt, Sodium hydroxide, Mixture)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN1760
14.2. UN proper shipping name Corrosive liquid, n.o.s. (N-hydroxyethylenediamine triacetic acid trisodium salt, Sodium hydroxide, Mixture)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards No.
ERG Code Not available.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.



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IMDG

14.1. UN number	UN1760
14.2. UN proper shipping name	Corrosive liquid, n.o.s. (N-hydroxyethylenediamine triacetic acid trisodium salt, Sodium hydroxide, Mixture)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	Not established.

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended
Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.



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Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

National regulations

Not available.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

List of abbreviations

CAS: Chemical Abstract Service.
 EC-No: European Commission Number
 CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
 CEN: European Committee for Standardization (Comité Européen de Normalisation).
 TWA: Time Weighted Average.
 STEL: Short-term Exposure Limit.
 LD50: Lethal Dose 50%.
 LC50: Lethal Concentration 50%.
 EC50: Effective Concentration 50%.
 NOEL: No observed effect level.
 COD: Chemical Oxygen Demand
 BOD: Biochemical oxygen demand.
 TOC: Total Organic Carbon.
 ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).
 IATA: International Air Transport Association
 IMDG Code: International Maritime Dangerous Goods Code.
 RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

References

Safety data sheets of raw materials.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.



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H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H360D May damage the unborn child.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Training information

Provide training on safe handling while considering the type of application and exposure scenarios. Follow training instructions when handling this material.

Disclaimer

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

Constituents (Regulation (EC) No 648/2004)

Less than 5 % of anionic surfactants
5 but less than 15 % of aliphatic hydrocarbons

Based on EC Directive / Regulations

(EC) No 1907/2006 (REACH)
(EU) 2015/830
(EC) No 1272/2008
(EU) No 1357/2014

Further information

Correction in Section: 2,3,4,5,6,7,8,10,11,12,13,15,16