

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 12/20/2022 Revision date: 12/20/2022 Supersedes version of: 3/11/2022 Version: 12.0

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

	Substanoo/mixture and of the company/andortaking	
1.1. Product identifier		
Product form Trade name	: Mixture : DER K2 PF	
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against	
 1.2.1. Relevant identified uses Use of the substance/mixture 1.2.2. Uses advised against No additional information available 	: Product for cosmetic compositions	
1.3. Details of the supplier of the safe	ety data sheet	
DERYPOL, S.A HQ: C/Plató, n 6, Entlo, 5 08021 Barcelona (Spain) Tel. +34 93 238 9090	Manufacturing: C/Cal Gabatx, s/n 08520 Les Franqueses del Vallès (Spain) Tel. +34 93 8496188 regulatory@derypol.com	
1.4. Emergency telephone number		
Emergency number	: +34 93 849 6188 9:00-13:00 h 15:00-17:00 h (GMT + 1)	
SECTION 2: Hazards identification	on	
2.1. Classification of the substance of	or mixture	
Classification according to Regulation (E 2015/830, 2020/878 (REACH Annex II)	C) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU > 2015: According to Regulation (EU)	
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412 Full text of H statements : see section 16		
Adverse physicochemical, human health No additional information available	and environmental effects	
2.2. Label elements		
Labelling according to Regulation (EC) N Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	o. 1272/2008 [CLP] : - : H412 - Harmful to aquatic life with long lasting effects. : P273 - Avoid release to the environment.	

2.3. Other hazards

Other hazards which do not result in classification

: Spills will produce extremely slippery surfaces in case of contact with water.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures			
Comments	: Diallyldimethylammonium c	hloride homopoly	ymer in aqueous solution
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Poly(dimethyldiallylammonium chloride)	CAS-No.: 26062-79-3	30-50	Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Do not perform any action that poses a risk if proper training is not held. Use the personal protective equipment necessary in the circumstances prevailing in the place of intervention.	
First-aid measures after inhalation	: In case of trouble go to the open air.	
First-aid measures after skin contact	 Rinse the skin affected with plenty of water. Then wash it again with water and soap. In case of irritation, if it persists, get medical advice. 	
First-aid measures after eye contact	: Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. Get medical assistance. It is necessary having a safety shower in the work area.	
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects	: No effects whatsoever related to exposure to the product are known.	
Symptoms/effects after inhalation	None expected.	
Symptoms/effects after skin contact	: None expected.	
Symptoms/effects after eye contact	: It causes itching and redness.	
Symptoms/effects after ingestion	: Gastrointestinal discomfort. Repeated ingestion of the product is considered highly unlikely route of exposure if working in adequate sanitary and hygiene conditions.	
Chronic symptoms	: None known.	

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

Treat symptomatically. The main product ingredients are water, cationic polymer (soluble in water) and salt. Any ingredient in significant proportion according to the criteria laid down in Regulation 1272/2008 is mentioned in paragraph 3.2 of this Safety Data Sheet.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Water, water spray, dry powder, carbon dioxide (CO2), foam. : None.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard	 Cool the containers with sprayed water. Avoid exposure to smoke and vapour provoked by the heating or combustion of the product. None known.
Explosion hazard Reactivity in case of fire	 None known. This product does not present any dangerous reactivity if used, stored and handled in accordance with this MSDS recommendations.
Hazardous decomposition products in case of fire	: Under fire conditions thermal decomposition may produce: nitrogen oxides (NOx) and carbon oxides (COx).
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 In case of fire: stop leak if safe to do so. Contain the extinguishing fluids by bunding. Use self-contained breathing apparatus and chemically protective clothing.

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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: See Section 8 to have information related to most appropriate personal protection equipment. See Section 13 to have information related to waste management.	
6.1.1. For non-emergency personnel		
Protective equipment	: Avoid eyes and skin contact; use personal protective equipment.	
Emergency procedures	: Restrict access to area. Remove immediately contaminated clothes.Wash with plenty of water and soap the conatminated surfaces. Use safety goggles, PVC gloves and waterproof boots.	
6.1.2. For emergency responders		
Protective equipment	: Avoid eyes and skin contact; use personal protective equipment.	
6.2. Environmental precautions		
Avoid the ground to be contaminated, natural water courses and wastewater drainage. If contamination occurs inform the corresponding authorities immediately.		

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	For small spills use inert absorbent materials and remove with a shovel; then flush the affected area with pressured water. For large spills contain them with absorbent material and pump out the product to adequate containers; then flush the affected area with pressured water.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

See Section 8 to have information related to most appropriate personal protection equipment. See Section 13 to have information related to waste management.

SECTION 7: Handling and storag	e	
7.1. Precautions for safe handling		
Precautions for safe handling	We recommend handling the product in a well ventilated area. Ensure you have a safety shower and eye wash fountain available. Keep absorbent material as a precaution against spills. Use normal personal hygiene and housekeeping measures when handling any chemical product.	
Handling temperature	: 0 – 30 °C	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Keep in a covered place with the drum well closed and within the recommended temperature range. Avoid extreme temperatures on long storage periods, especially at low temperatures, the product may undergo an emulsion degradation process. If this occurs we recommend mixing the product and moving it to a warmer storage zone.	
Storage temperature	: 5 – 30 °C	
7.3. Specific end use(s)		

For all the expected uses of the product the indications given above are considered appropriate.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Natural ventilation is adequate in open areas. Provide mechanical ventilation in confined spaces.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side-shields

8.2.2.2. Skin protection

Skin and body protection:

Use a chemical resistant apron or full protective equipment depending on the handling level and contact risks with the product and its dissolutions

Hand protection:

Use latex gloves, or natural rubber gloves

Other skin protection

Materials for protective clothing:

Use a chemical resistant apron or full protective equipment depending on the handling level and contact risks with the product and its dissolutions

8.2.2.3. Respiratory protection

Respiratory protection: Not necessary under normal conditions and provided good general ventilation

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid spills that contaminate the underground, surface water streams and sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Appearance	: Trasparent liquid, colourless to pale yellowish.
Molecular mass	: Medium molecular weight.
Odour	: Almost odourless.
Odour threshold	: Not available
Melting point	: <0 °C
Freezing point	: Not available
Boiling point	: > 100 °C
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available

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Upper explosive limit (UEL) Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic Viscosity, dynamic Solubility Partition coefficient n-octanol/water (Log Kow) Partition coefficient n-octanol/water (Log Pow) Vapour pressure Vapour pressure Vapour pressure at 50 °C Density Relative density Relative density Relative vapour density at 20 °C Particle size Particle size distribution Particle shape Particle aspect ratio Particle agregation state	 Not available Not available Not available Not available > 150 °C 5 - 7 Not available 5000 - 12000 cP Dilutable in all proportions. Not available < 0 Not available < 0 Not available < anti-anti-anti-anti-anti-anti-anti-anti-
•	
Particle specific surface area Particle dustiness	: Not applicable : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This product does not present any dangerous reactivity if used, stored and handled in accordance with this MSDS recommendations.

10.2. Chemical stability

Stable under normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No risk of explosion or polymerization or inflammation on contact with air, even at high temperatures (<100 ° C) and in the presence of ignition sources.

10.4. Conditions to avoid

None for safety reasons. For keeping the original properties of the product follow the recommendations given in Section 7.

10.5. Incompatible materials

Strong bases may provoke exothermic reactions. Strong oxidizers may cause exothermic reactions.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Acute toxicity (dermal) : Not classified : Not classified

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Acute toxicity (inhalation)	: Not classified
DER K2 PF	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	pH: 5 – 7 : May cause slight irritation pH: 5 – 7
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
11.2. Information on other hazards	
44.0.4. Ende entre allementing and an entre	

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine : No data available disrupting properties

11.2.2. Other information

SECTION 12: Ecological information

40.4 To 1.10	
12.1. Toxicity	
(acute)	Not classified Harmful to aquatic life with long lasting effects.
DER K2 PF	
LC50 - Fish [1]	10 – 100 mg/l
EC50 - Crustacea [1]	10 – 100 mg/l
EC50 72h - Algae [1]	Algal inhibition tests are not appropiate. The flocculating characteristics of the product inerfere directly in the test medium preventing homogenous distribution which invalides the test.
12.2. Persistence and degradability	
DER K2 PF	
Persistence and degradability	Not readily biodegradable. This product does not hydrolyse.
12.3. Bioaccumulative potential	
DER K2 PF	
Partition coefficient n-octanol/water (Log Pow)	< 0
Bioaccumulative potential	not bioaccumulable.
12.4. Mobility in soil	
DER K2 PF	
Partition coefficient n-octanol/water (Log Koc)	≈ 0

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12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by endocrine disrupting properties	: No data available
12.7. Other adverse effects	
Additional information	In aqueous solution this product may be eliminated by flocculation and precipitation. It is easily removed from the aqueous media in presence of suspended matter. This product does not contain substances belonging to nonylphenol and nonylphenos ethoxylated groups.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: If this product must be disposed as a waste the final user must do it accordingly with the European, national and local regulations. Use only authorised companies. Empty containers and residual product must not be washed out with water, this would provoke an inappropriate dissolution of the product and it would increase the amount of waste to dispose. Exhaust as much as possible the product and dispose the empty container taking into account Section 13.1.

SECTION 14: Transport information			
In accordance with ADR / IMDG / IATA / ADN / RID			
14.1. UN number or ID number			
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 		
14.2. UN proper shipping name			
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 		
14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not applicable		
IMDG Transport hazard class(es) (IMDG)	: Not applicable		
IATA Transport hazard class(es) (IATA)	: Not applicable		
ADN Transport hazard class(es) (ADN)	: Not applicable		
RID Transport hazard class(es) (RID)	: Not applicable		

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14.4. Packing group		
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.5. Environmental hazards		
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available	
14.6. Special precautions for user		
Overland transport Not applicable		
Transport by sea Not applicable		
Air transport Not applicable		

Inland waterway transport Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting	: None of the components are listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: None of the components are listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: None of the components are listed
giftige stoffen – Ontwikkeling	

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	e Comments	
	Adverse effects on the environment caused by endocrine disrupting properties	Added		
	Adverse health effects caused by endocrine disrupting properties	Added		
	Supersedes	Modified		
	Revision date	Modified		
	Issue date	Modified		
16	Other information	Added		

Other information

: The latest version of the MSDS of this product can be obtained through the link https://www.derypol.com/en/technical-documentation/.

Full text of H- and EUH-statements	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H412 Harmful to aquatic life with long lasting effects.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet applicable for regions

: DE;DK;ES;FI;FR;IT;NL;PL;PT;GB;RU;SE

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.