

Product no.: AS 203 C1269 UK

Current version: 3.0.0, issued: 03.09.2019 Replaced version: 2.0.1, issued: 20.06.2019 Region: GB

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

1.1 Product identifier

Trade name

KARMA

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

Relevant identified uses of the substance or mixture

Plant protection product

Fungicide

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Certis Europe (GB) Suite 5, 3 Riverside

Granta Park - Great Abington Cambridgeshire CB21 6AD

United Kingdom

Telephone no. +44 (0) 1223 894 261 Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk

Advice on Safety Data Sheet

certis@certiseurope.co.uk

1.4 Emergency telephone number

Carechem 24 GB +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

<u>Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)</u>

Hazard pictograms

. .

Signal word

Hazard statement(s)

Hazard statements (EU)

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s)

P260 Do not breathe dust.

P262 Do not get in eyes, on skin, or on clothing.



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P280 Wear protective gloves/protective clothing.

P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or

collection site except for triple rinsed empty clean containers which can be disposed of as

non-hazardous waste.

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

PBT assessment

No data available.

vPvB assessment

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information			
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration		%
	REACH no					
1	potassium-hydroge	encarbonate				
	298-14-6	-	>=	70.00 - <	90.00	%-b.w.
	206-059-0					
	-					
	-					
2	sodium-dodecyl-su	ılfate				
	151-21-3	Flam. Sol. 2; H228		<	15.00	%-b.w.
	205-788-1	Acute Tox. 4; H332				
	-	Acute Tox. 4; H302				
	01-2119489461-32	STOT SE 3; H335				
		Skin Irrit. 2; H315				
		Eye Dam. 1; H318				
		Aquatic Chronic 3; H412				
3	Docusate-sodium					
	577-11-7	Eye Dam. 1; H318		<	15.00	%-b.w.
	209-406-4	Skin Irrit. 2; H315				
	-					
	01-2119491296-29					
	I Tank for all I be read and El II be read and a constant AC					

Full Text for all H-phrases and EUH-phrases: pls. see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash immediately with plenty of water for several minutes. Slight irritation is possible on prolonged, repeated or occluded contact.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Moderately irritating but effects are reversible and minimized with washing.

After ingestion

Call a doctor immediately and show label or packaging. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting.



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4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Dry chemical extinguisher; Foam; Alcohol-resistant foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Sulphur oxides (SxOy); Potassium oxide

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Run-off water from fire fighting must not be discharged into drains or enter surface water. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

1 Precautions for safe handling

Advice on safe handling

No special measures necessary if stored and handled as prescribed. Do not inhale dust. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust/fumes/aerosols.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect against humidity

Requirements for storage rooms and vessels

Store product in closed containers.

Incompatible products

Do not store together with foodstuffs. Substances to be avoided, pls. See chapter 10.



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7.3 Specific end use(s)

Industry solution

Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	1 sodium-dodecyl-sulfate			151-21-3 205-788-1	
	dermal	Long term (chronic)	systemic	4060	mg/kg
	inhalative	Long term (chronic)	systemic	285	mg/m³
2	Docusate-sodium			577-11-7	
				209-406-4	
	dermal	Long term (chronic)	systemic	31.30	mg/kg/day
	inhalative	Long term (chronic)	systemic	44.10	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	sodium-dodecyl-sulfate			151-21-3	
				205-788-1	
	oral	Long term (chronic)	systemic	24	mg/kg
	dermal	Long term (chronic)	systemic	2440	mg/kg
	inhalative	Long term (chronic)	systemic	85	mg/m³
2	2 Docusate-sodium			577-11-7	
				209-406-4	
	oral	Long term (chronic)	systemic	18.80	mg/kg/day
	dermal	Long term (chronic)	systemic	18.80	mg/kg/day
	inhalative	Long term (chronic)	systemic	13.00	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	sodium-dodecyl-sulfate		151-21-3	
			205-788-1	
	water	fresh water	0.176	mg/L
	water	marine water	0.0176	mg/L
	water	fresh water sediment	6.97	mg/kg
	water	marine water sediment	0.697	mg/kg
	soil	-	1.29	mg/L
	sewage treatment plant	-	1.35	mg/L
2	Docusate-sodium		577-11-7	
			209-406-4	
	water	fresh water	0.0066	mg/L
	water	marine water	0.00066	mg/L
	water	Aqua intermittent	0.066	mg/L
	water	fresh water sediment	0.653	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.0653	mg/kg
	with reference to: dry weight			
	soil	-	0.138	mg/kg
	with reference to: dry weight		•	
	sewage treatment plant	-	122.00	mg/L

8.2 Exposure controls



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Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
Powder	
white	

Odour
No data available

Odour threshold No data available

pH value			
Value	8.33		
Concentration	1 %		
Method	CIPAC MT 75.3		
Source	Manufacturer		

Boiling point / boiling range	
No data available	

Melting point / melting range No data available

Decomposition point / decomposition range	
No data available	

Flash point	
No data available	

Auto-ignition temperature	
No data available	

Oxidising properties	
not oxidizing	

Explosive properties	
Product does not present an explosion hazard.	

Flammability (solid, gas)	
No data available	



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Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

No data available

 Bulk density

 Value
 1 g/cm³

 Reference substance
 CAS 298-14-6

 Source
 Manufacturer

 Packed bulk density

 Value
 0.70 g/ml

 Method
 CIPAC MT 186

 Source
 Manufacturer

Solubility in waterValue332 g/lReference temperature20 °CReference substanceCAS 298-14-6SourceManufacturer

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable under normal storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

Acids

10.6 Hazardous decomposition products



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Thermal decomposition may emit carbon dioxide, oxides of sulphur and potassium oxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	Acute oral toxicity				
No	Product Name				
1	KARMA				
LD5	0		2900	mg/kg/bw	
Spe	cies	rat (male)			
Sou	rce	Manufacturer			
LD5	0		2600	mg/kg/bw	
Spe	cies	rat (female)			
Sou	rce	Manufacturer			

Acu	Acute dermal toxicity				
No	lo Product Name				
1	KARMA				
LD5)	>	5000	mg/kg	
Species		rabbit			
Sour	ce	Manufacturer			

Acute inhalational toxicity					
No F	Product Name				
1 k	KARMA				
LC50		>	2.3	mg/m³	
Duration of exposure			4	h	
State of aggregation		Dust/mist			
Species		rat			
Source		Manufacturer			
Comm	nents	highest checkable	concentration		

Skir	Skin corrosion/irritation				
No	No Product Name				
1	KARMA				
Spe	cies	rabbit			
Sou	rce	Manufacturer			
Eval	uation	non-irritant			

Seri	Serious eye damage/irritation				
No	Product Name				
1	KARMA				
Spe	cies	rabbit			
Source		Manufacturer			
Evaluation		slightly irritant			
Eval	uation/classification	Based on available data, the classification criteria are not met.			

Res	Respiratory or skin sensitisation			
No	Product Name			
1	KARMA			
Rout	te of exposure	Skin		
Meth	nod	Buehler		
Sour	rce	Manufacturer		
Eval	uation	non-sensitizing		

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure



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No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxi	Toxicity to algae (acute)				
No	Product Name				
1	KARMA				
ErC5	50	>	100.9	mg/l	
Dura	tion of exposure		72	h	
Spec	cies	Pseudokirchneriella subcapitata			
Sour	ce	Manufacturer			
EC5	0	>	100.9	mg/l	
Duration of exposure			72	h	
Spec	pecies Pseudokirchneriella subcapitata				
Sour	ce	Manufacturer			

Toxicity to algae (chronic)

No data available

Bac	Bacteria toxicity				
No	Substance name	CAS no.		EC no.	
1	sodium-dodecyl-sulfate	151-21-3		205-788-1	
EC5	50		135	mg/l	
Dura	ation of exposure		3	h	
Spe	cies	activated sludge			
Method		OECD			
Sou	rce	ECHA			

12.2 Persistence and degradability

2.2 Persistence and degradability							
Biod	Biodegradability						
No	Substance name	CAS no.		EC no.			
1	sodium-dodecyl-sulfate	151-21-3		205-788-1			
Type		CO2 formation in % of the	neoretical value				
Value			95	%			
Duration			28	day(s)			
Method		OECD 301 B					
Source		ECHA					
Evaluation		readily biodegradable					
2	Docusate-sodium	577-11-7		209-406-4			
Type		aerobic biodegradation					
Value			91.2	%			
Duration			28	day(s)			
Method		OECD 310					
Source		ECHA					
Evaluation		readily biodegradable					



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12.3 Bioaccumulative potential

Bioconcentration factor (BCF)					
No	Substance name	CAS no.	EC no.		
1	sodium-dodecyl-sulfate	151-21-3	205-788-1		
BCF		2.1			
Species		Cyprinus carpio			
Source		ECHA			

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
PBT assessment	No data available.		
vPvB assessment	No data available.		

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.



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REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H228 Flammable solid. Harmful if swallowed. H302 H315 Causes skin irritation. H318

Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 755763