

Product no.: AS 203 C1269 IRE

Current version: 3.0.2, issued: 28.06.2023 Replaced version: 3.0.1, issued: 21.12.2022 Region: IE

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 Belchim B.V. (EU) Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200 Fax no. 0031 (0)30 310 0241 e-mail info@certisbelchim.com

Advice on Safety Data Sheet

www.certisbelchim.com

Identification of the supplier

Address

Certis Belchim B.V. - United Kingdom

Suite 5, 3 Riverside, Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. 0044 (0) 1223 652500 Fax no. 0044 (0)1223 891210

e-mail info.uk@certisbelchim.com - www.certisbelchim.co.uk

1.4 Emergency telephone number

For further advice for medical professionals:

Dublin - National Poisons Information Centre, Beaumont Hospital, Dublin 9:

Available from 8 am to 10pm – 7 days: +353 (01) 809 2166 Available 24hrs: +353(01)809 2566

Carechem 24 EU: +44 1235 239670

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

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

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.



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Precautionary statement(s)

P260 Do not breathe dust.

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

the dust may be irritating to the respiratory system.

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

Chemical characterization

Potassium hydrogen carbonate 85% (SP)

Hazardous ingredients

No	Substance name		Additional information	
NO		Ol:::::: (EO) 4070/0000 (OLD)		0/
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	potassium-hydrogen	carbonate		
	298-14-6	-	>= 70,00 - < 90,00	wt%
	206-059-0			
	-			
	-			
2	sodium-dodecyl-sulfa	ate		
	151-21-3	Flam. Sol. 2; H228	< 15,00	wt%
	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	wt%
	209-406-4	Skin Irrit. 2; H315	·	
	-	·		
	01-2119491296-29			

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 10%	-	-
		Eve Dam. 1: H318: C >= 20%		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

If medical advice is needed, have product container or label at hand.

After inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

After skin contact

Take off contaminated clothing. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth. Call a POISON CENTER or doctor/physician.



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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

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

7.1 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, see section 10.

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



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DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
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	267,86	mg/kg/day
	inhalative	Long term (chronic)	systemic	1889,1	mg/m³

DNEL value (consumer)

No	Substance name	Substance name			
	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	Docusate-sodium	· · ·	• •	577-11-7	_
				209-406-4	
	oral	Long term (chronic)	systemic	17,86	mg/kg/day
	dermal	Long term (chronic)	systemic	160,71	mg/kg/day
	inhalative	Long term (chronic)	systemic	599,01	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	0,18	mg/L
	water	marine water	0,018	mg/L
	water	fresh water sediment	17,789	mg/kg dry weight
	water	marine water sediment	1,779	mg/kg dry weight
	soil	-	1,04	mg/kg dry weight
	sewage treatment plant	-	12,2	mg/L

8.2 Exposure controls

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



Solubility in water

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9.1 Information on basic physical and chemical properties

Information on basic physical and chemical properties					
State of aggregation					
solid					
Powder					
Colour white					
Odour odourless					
pH value					
Value		8,33			
Concentration	OUDA O ME 75 O	1	%		
Method Source	CIPAC MT 75.3 Manufacturer				
Boiling point / boiling range	Manadado				
No data available					
Melting point/freezing point					
Value	>	156	°C		
Reference substance	CAS 298-14-6				
Source Comments	Manufacturer Decomposes withou	t meltina			
Decomposition temperature	1 = 1 = 1 mp = 2 o maiou				
Value	>	156	°C		
Reference substance	CAS 298-14-6				
Flash point					
No data available					
Ignition temperature					
No data available					
Oxidising properties					
not oxidizing					
Explosive properties Product does not present an explosion hazard.					
Flammability not highly flammable					
Source	Manufacturer				
Lower explosion limit					
No data available					
Upper explosion limit					
No data available					
Vapour pressure					
No data available					
Relative vapour density					
No data available					
Relative density No data available					
Value		1	g/cm³		
Reference substance	CAS 298-14-6		y		
Source	Manufacturer				
Bulk density		0.70			
Value Method	CIPAC MT 186	0,70	g/ml		
Source	Manufacturer				
Packed bulk density					
Value		0,78	g/ml		
Method	CIPAC MT 186				
Source	Manufacturer				



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Value Reference temperature	332 g/l 20 °C
Reference substance	CAS 298-14-6
Source	Manufacturer

Solubility

No data available

Partiti	Partition coefficient n-octanol/water (log value)					
No 3	Substance name		CAS no.		EC no.	
1 :	sodium-dodecyl-sulfate		151-21-3		205-788-1	
log Po	DW .	<=		-2,03		
Refere	ence temperature			20	°C	
Metho		OECD 107				
Source	e	ECHA				
2	Docusate-sodium		577-11-7		209-406-4	
log Po	ow .			1,998		
Refere	ence temperature			20	°C	
with re	eference to	pH = 5				
Metho	od	calculated				
Source	e	ECHA				

Kinematic viscosity No data available

Particle characteristics

No data available

9.2 Other information

Other information	
Surface tension: 25.2 mN/m (2.5% w/v at 20.1°C)	

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).

Possibility of hazardous reactions

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

Conditions to avoid

Moisture.

10.5 Incompatible materials

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acut	Acute oral toxicity					
No	Product Name					
1	Karma					
LD50			2900	mg/kg/bw		
Spec	ies	rat (male)				
Sour	ce	Manufacturer				
LD50			2600	mg/kg/bw		
Species		rat (female)				
Sour		Manufacturer				

Acut	Acute dermal toxicity						
No	Product Name						
1	Karma						
LD50		>	5000	mg/kg			
Spec	ties	rabbit					
Sour	ce	Manufacturer					

Acute inhalational toxicity



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No	Product Name				
1	Karma				
LC50		>	2,3	mg/m³	
Dura	tion of exposure		4	h	
State	of aggregation	Dust/mist			
Spec	ies	rat			
Sour	ce	Manufacturer			
Com	ments	highest checkable concentration			

Skin	Skin corrosion/irritation				
No	No Product Name				
1	Karma				
Spec	Species rabbit Source Manufacturer				
Sour	ce	Manufacturer			
Evaluation		non-irritant			

Serio	Serious eye damage/irritation				
No	Product Name				
1	Karma				
Spec	ties	rabbit			
Source		Manufacturer			
Evaluation		slightly irritant			
Evaluation/classification		Based on available data, the classification criteria are not met.			

Resp	Respiratory or skin sensitisation				
No	Product Name				
1	Karma				
Route	e of exposure	Skin			
Method		Buehler			
Source		Manufacturer			
Evalu	uation	non-sensitizing			

Gern	Germ cell mutagenicity				
No	Substance name	CAS no.	EC no.		
1	Docusate-sodium	577-11-7	209-406-4		
Type	of examination	in vitro gene mutation study in bacteria			
Spec	ies	S. typhimurium TA 1535, TA 1537, TA 98 and	TA 100S. typhimurium TA 1535,		
		TA 1537, TA 98, TA 100, TA 102			
Meth	od	OECD 471			
Source		ECHA			
Evalu	uation/classification	Based on available data, the classification criteria are not met.			
Rout	e of exposure	oral			
Type	of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus			
Species		rat			
Method		OECD 474			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classification crit	eria are not met.		

Repr	Reproduction toxicity				
No	Substance name	CAS no.	EC no.		
1	Docusate-sodium	577-11-7	209-406-4		
Rout	e of exposure	oral			
Type	of examination	three-generation reproductive toxicity			
Spec	ies	rat			
Meth	od	OECD 416			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classification criteria are not met.			
Rout	e of exposure	oral			
NOA	EL	1074	mg/kg bw/d		
Type	of examination	Prenatal Developmental Toxicity Study			
Species		rat			
Method		OECD 414			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classification crite	ria are not met.		

Carcinogenicity	
No data available	

TOT - single exposure	
TOT - single exposure	
lo data available	
.0 data available	

STO	STOT - repeated exposure				
No	Substance name	CAS no.	EC no.		



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1 Docusate-sodium	577-11-7		209-406-4
Route of exposure	oral		
NOAEL	>	1000	mg/kg bw/d
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, th	ne classification crite	eria are not met.

Achiration hazard	
Aspiration nazaru	
No data available	

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxio	Toxicity to fish (acute)				
No	Product Name				
1	Karma				
LC50		>	1200	mg/l	
Duration of exposure			96	h	
Spec	ies	Rainbow trout			
		CAS 298-14-6			
Source		Manufacturer			
LC50		>	1200	mg/l	
Duration of exposure			96	h	
Species		Bluegill			
Reference substance		CAS 298-14-6			
Sour	ce	Manufacturer			

Toxicity to fish (chronic) No data available

Toxicity to Daphnia (acute)				
No Product Name				
1 Karma				
EC50		397	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Source	Manufacturer			
EC50		317	mg/l	
Duration of exposure		48	h	
Species	Chironomus riparius			
Source	Manufacturer			
EC50	>	860	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Reference substance	CAS 298-14-6			
Source	Manufacturer			

Toxicity to Daphnia (chronic) No data available

Toxicity to algae (acute)				
No Product Name				
1 Karma				
ErC50	>	100,9	mg/l	
Duration of exposure		72	h	
Species	Pseudokirchneriella subcapitata			
Source	Manufacturer			
EC50	>	100,9	mg/l	
Duration of exposure		72	h	
Species	Pseudokirchneriella subcapitata			
Source	Manufacturer			

Toxicity to algae (chronic)
No data available
Bacteria toxicity



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No Substance name	CAS no.		EC no.	
1 sodium-dodecyl-sulfate	151-21-3		205-788-1	
EC50		135	mg/l	
Duration of exposure		3	h	
Species	activated sludge			
Method	OECD			
Source	ECHA			
2 Docusate-sodium	577-11-7		209-406-4	
EC50		164	mg/l	
Duration of exposure		16,5	h	
Species	Pseudomonas putida			
Method	DIN 38412 T.8			
Source	ECHA			

12.2 Persistence and degradability

Biod	legradability				
No	Substance name	CAS no.		EC no.	
1	sodium-dodecyl-sulfate	151-21-3		205-788-1	
Туре		CO2 formation in % of theoretical	CO2 formation in % of theoretical value		
Valu	e		95	%	
Dura	ition		28	day(s)	
Method		OECD 301 B		· ,	
Source		ECHA			
Eval	uation	readily biodegradable			
2	Docusate-sodium	577-11-7		209-406-4	
Туре		aerobic biodegradation			
Valu	e		91,2	%	
Dura	ition		28	day(s)	
Meth	nod	OECD 310		· ,	
Sour	ce	ECHA			
Eval	uation	readily biodegradable			

12.3 Bioaccumulative potential

.3 I	Bioaccumulative potential					
Part	ition coefficient n-octanol/water (log v	ralue)				
No	Substance name		CAS no.		EC no.	
1	sodium-dodecyl-sulfate		151-21-3		205-788-1	
log F	Pow	<=		-2,03		
Refe	rence temperature			20	°C	
Meth	nod	OECD 107				
Sour	ce	ECHA				
2	Docusate-sodium		577-11-7		209-406-4	
log F	Pow			1,998		
Refe	rence temperature			20	°C	
with	reference to	pH = 5				
Meth	nod	calculated				
Sour	ce	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 Endocrine disrupting properties

No data available.

12.7 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

Residues 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.



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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 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

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.

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, MIXTURES AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in 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.

15.2 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.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

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 section.

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

H228Flammable solid.H302Harmful if swallowed.H315Causes skin irritation.H318Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Creation of the 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 758155