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Version : 2 - 20 / EU	Date of printing : 20.03.2018

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

1.1. Product identifier

Trade name LICOWAX C P

Material number: 107076

REACH - Registration number
according to article 20(3):01-2119487304-36-0002**Chemical nature:**Bisstearoylethylenediamide

EC number : 931-299-4

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

Relevant identified uses of the substance or mixture

Industry sector :	Polymers industry
	Paints, lacquers and varnishes industry
Type of use :	Industrial uses are not restricted by REACH legislation.

1.3. Details of the supplier of the safety data sheet

Identification of the company

Clariant Plastics & Coatings (Deutschland) GmbH 65926 Frankfurt am Main Telephone no. : +49 69 305 18000

Information about the substance/mixture

BU Additives Product Stewardship e-mail: SDS.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Does not require a hazard warning label, but the normal safety precautions for handling chemicals must be observed.



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Dust can form an explosiv	e mixture in air.	
SECTION 3: Composition/i	nformation on ingredients	
3.1 Substances		
Substance name	: Bisstearoylethylenediamide	
Hazardous components		
Remarks	: No hazardous ingredients	
SECTION 4: First aid meas	ures	
SECTION 4: First aid meas 4.1 Description of first aid me		
		eel unwell.
4.1 Description of first aid me	easures : Get medical advice/ attention if you f : Cool skin rapidly with cold water afte	
4.1 Description of first aid me General advice	 asures : Get medical advice/ attention if you f : Cool skin rapidly with cold water afte material. 	r contact with molten
4.1 Description of first aid me General advice	easures : Get medical advice/ attention if you f : Cool skin rapidly with cold water afte	r contact with molten
4.1 Description of first aid me General advice	 asures Get medical advice/ attention if you f Cool skin rapidly with cold water afte material. Do not peel solidified product off the Get medical attention. Rinse the affected eye with plenty of 	r contact with molten skin. water, at the same time
4.1 Description of first aid me General advice In case of skin contact	 easures : Get medical advice/ attention if you f : Cool skin rapidly with cold water afte material. Do not peel solidified product off the Get medical attention. 	r contact with molten skin. water, at the same time
4.1 Description of first aid me General advice In case of skin contact In case of eye contact	 asures Get medical advice/ attention if you f Cool skin rapidly with cold water afte material. Do not peel solidified product off the Get medical attention. Rinse the affected eye with plenty of 	r contact with molten skin. water, at the same time
4.1 Description of first aid me General advice In case of skin contact In case of eye contact	 easures Get medical advice/ attention if you f Cool skin rapidly with cold water afte material. Do not peel solidified product off the Get medical attention. Rinse the affected eye with plenty of keep the unaffected eye well protect 	r contact with molten skin. water, at the same time
 4.1 Description of first aid me General advice In case of skin contact In case of eye contact 4.2 Most important symptoms 	 easures Get medical advice/ attention if you f Cool skin rapidly with cold water after material. Do not peel solidified product off the Get medical attention. Rinse the affected eye with plenty of keep the unaffected eye well protected and effects, both acute and delayed 	r contact with molten skin. water, at the same time
 4.1 Description of first aid me General advice In case of skin contact In case of eye contact 4.2 Most important symptoms Symptoms Risks 	 easures Get medical advice/ attention if you f Cool skin rapidly with cold water after material. Do not peel solidified product off the Get medical attention. Rinse the affected eye with plenty of keep the unaffected eye well protected and effects, both acute and delayed No symptoms known currently. 	r contact with molten skin. water, at the same time ed.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Foam Water spray jet Dry powder
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during	: None known.
firefighting	



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5.3 Advice for firefighters	
Special protective equipment : for firefighters	Impervious clothing Protective helmets In the event of fire, wear self-contained breathing apparatus.
Further information :	Wear suitable protective equipment.
SECTION 6: Accidental release	measures
6.1 Personal precautions, protective	e equipment and emergency procedures
Personal precautions :	Wear suitable protective equipment.
6.2 Environmental precautions	
Environmental precautions :	The product should not be allowed to enter drains, water courses or the soil.
6.3 Methods and material for conta	inment and cleaning up
Methods for cleaning up :	Take up mechanically
	Avoid dust formation.
	Take measures to prevent the build up of electrostatic charge.
	Risk of dust explosion. Treat recovered material as described in the section "Disposal considerations".
6.4 Reference to other sections	

Information regarding Safe handling, see chapter 7., For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Provide appropriate exhaust ventilation at machinery.
Advice on protection against fire and explosion	:	Take measures to prevent the build up of electrostatic charge.
		Observe the general rules of industrial fire protection
		Combustible material
		Dust may form explosive mixture in air. Electrical equipment should be protected to the appropriate standard.
Hygiene measures	:	Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Use protective skin cream before handling the product.
Fire-fighting class	:	В



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Dust explosion class	: ST1 Capable of dust explosion
7.2 Conditions for safe storage, i	ncluding any incompatibilities
Further information on storage conditions	: Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep away sources of ignition.
7.3 Specific end use(s) Specific use(s)	: No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Bisstearoylethylenedi amide	Workers	Inhalation	Long-term systemic effects	35,26 mg/m3
Remarks:	DNEL			
	Workers	Dermal	Long-term systemic effects	10 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	8,7 mg/m3
Remarks:	DNEL			
	General	Oral	Long-term systemic	5 mg/kg
	population		effects	bw/day
Remarks:	DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Bisstearoylethylenediamide	Fresh water sediment	10 mg/kg dry
		weight (d.w.)
	Marine sediment	1 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	10 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

Engineering measures

Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

Personal protective equipment

Eye protection : Safety glasses

Hand protection Remarks

: Nitrile rubber gloves. Minimum breakthrough time (glove): not



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	determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection :	working clothes
Respiratory protection :	In case of inadequate ventilation wear respiratory protection.
Protective measures :	When working with hot material, avoid contact with skin.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	off-white
Odour	:	not specified
рН	:	not tested.
Drop point	:	approx. 142 °C Method: DIN/ISO 2176 GLP: no
Melting point		144 °C Method: DSC GLP: no
Boiling point	:	Decomposes below the boiling point.
Flash point	:	Not applicable
Burning number	:	not tested.
Vapour pressure	:	0,000023 Pa (20 °C) Method: OECD Test Guideline 104 GLP: yes
		0,000042 Pa (25 °C) Method: OECD Test Guideline 104 GLP: yes
		0,00062 Pa (50 °C) Method: OECD Test Guideline 104 GLP: yes
Density	:	approx. 1 g/cm3 (23 °C) Method: ISO 1183
Solubility(ies)		



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Water solubility	insoluble (20 °C)
Partition coefficient: n- octanol/water	not determined
Decomposition temperature	> 200 °C Method: DTA No decomposition if used as directed.
Viscosity Viscosity, dynamic	approx. 10 mPa.s (150 °C) Method: DIN 53019
Oxidizing properties	The substance or mixture is not classified as oxidizing.
	Method: Expert judgement The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
9.2 Other information	
Dust deflagration index (Kst)	63 m.b_/s
Dust explosion class	ST1 Capable of dust explosion
Minimum ignition energy	100 - 300 mJ (20 °C) Method: Mike 3 apparatus with inductive electrical resistance
	100 - 300 mJ (60 °C) Method: Mike 3 apparatus with inductive electrical resistance
Particle size	218 μm Method: ISO 13320-1 Median value
Self-ignition	Method: Expert judgement The substance or mixture is not classified as pyrophoric. The product melts below 160 °C. Therefore, no further testing of self-heating properties is required.

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : The substance or mixture does not emit flammable gases in



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		contact with water.
		Not corrosive to metals
0.4 Conditions to avoid		
Conditions to avoid	:	no data available
0.5 Incompatible materials Materials to avoid		not known
	•	
0.6 Hazardous decompositio	n pro	ducts
Possible in traces:		
Nitrogen oxides (NOx)		
SECTION 11: Toxicological	infor	mation
1.1 Information on toxicologi	ical of	facts
Acute toxicity	Carei	16013
•		
<u>Product:</u> Acute oral toxicity		LD50 (Rat, male and female): > 5.000 mg/kg
	•	Method: OECD Test Guideline 401
Acute inhalation toxicity		LC50 (Rat, male and female): > 6,3 mg/l
route initial terrety	•	Test atmosphere: dust/mist
		Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2.000 mg/kg
·		Method: OECD Test Guideline 402
Skin corrosion/irritation		
Product:		
Species: Rabbit		
Method: OECD Test Guide	line 40	04
Result: No skin irritation		
Serious eye damage/eye	irritat	ion
Product:		
Species: Rabbit Method: OECD Test Guide	lina 1(15
Result: No eye irritation		
Respiratory or skin sensit	isatio	n
Product:		••
Species: Mouse		
Mothod: OECD Tost Guida		

Method: OECD Test Guideline 429 Result: Not a skin sensitizer.



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Germ cell mutagenicity	
Product:	
Genotoxicity in vitro	: Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Test Type: Mammalian cell gene mutation assay Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Germ cell mutagenicity- Assessment	: In vitro tests did not show mutagenic effects
Carcinogenicity	
Product:	
Carcinogenicity - Assessment	: No information available.
Reproductive toxicity	
Product:	
Effects on foetal development	 Test Type: Pre-natal Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) General Toxicity Maternal: NOAEL: >= 1.000 mg/kg body weight Method: OECD Test Guideline 414
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.



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STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Species: Rat, male and female NOEL: >= 1000 mg/kg bw/day Application Route: oral (gavage) Method: OECD Test Guideline 408

Aspiration toxicity

Product:

no data available

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oryzias latipes (Orange-red killifish)): 0,027 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,0022 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae	:	NOEC (Pseudokirchneriella subcapitata (algae)): 0,053 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC50: 0,0056 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	EC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h



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	Test Type: static test Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	NOEC: >= 1.000 mg/kg Exposure time: 56 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222
Sediment toxicity	 NOEC: >= 1000 mg/kg dry weight (d.w.) Test Type: static test Sediment: Artificial sediment Exposure duration: 28 d Method: OECD Test Guideline 218
12.2 Persistence and degradability	y .
Product:	
Biodegradability	 Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 5,5 % Related to: Carbon dioxide (CO2) Exposure time: 28 d Method: OECD Test Guideline 301B
12.3 Bioaccumulative potential	
Product:	
Bioaccumulation	Remarks: Bioaccumulation is unlikely.
12.4 Mobility in soil	
Product:	
Distribution among environmental compartments	log Koc: 8,6 - 8,91 Method: calculated
12.5 Results of PBT and vPvB ass	essment
Product:	
Assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
12.6 Other adverse effects	
Product:	
Additional ecological information	Product is insoluble in water May be separated mechanically in waste water plants.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	In accordance with the necessary technical regulations may be dumped with household waste, after consultation with site operator and with the responsible authority
		Consider recycling.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable



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Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

On the basis of an extensive test program, which had to be submitted to the competent authority on the occasion of the Notification of the substance in the European Community, this product was found to be toxicologically not dangerous within the meaning of the EC Directives.



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