

SAFETY DATA SHEET

(according to Regulation (EC) No. 1907/2006)

CRODA

CRODAMIDE ER-CH POWDER

Version 1.0
Revision Date 17. 02. 2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name	CRODAMIDE ER-CH POWDER
Product code	DC08332
Use of the Substance/Mixture	Lubricant
Company	Croda Singapore Pte Ltd 30 Seraya Avenue 627884 SG
Telephone	+6565519600
Telefax	+6565519550
E-mail address	SDSCompiler@croda.com
Emergency telephone number	EUROPE: 00 32 3575 5555 . USA: Transportation Emergency Involving Chemical Spills, Leaks, Fires, or Accidents (24 hr.): (800) 424-9300 . ASIA PACIFIC: 24 hr Toll Free Number: +800 ALERTSGS (+800-2537-8747) // 24 hr Singapore Exchange Number: +65 6542-9595

2. HAZARDS IDENTIFICATION

Specific hazards	Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Erucamide
CAS-No.	112-84-5
EINECS-No.	204-009-2

4. FIRST AID MEASURES

Eye contact	Rinse with plenty of water.
Skin contact	Wash off with soap and plenty of water.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Seek medical advice.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam Carbon dioxide (CO ₂) Dry powder
Extinguishing media which shall not be used for safety reasons	Water
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
Special exposure hazards in a fire	See chapter 10
Further information	Risk of dust explosion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid breathing dust. Refer to protective measures listed in sections 7 and 8. Fine dust dispersed in air may ignite. Avoid dust formation. Take precautionary measures against static discharges.
Environmental precautions	Try to prevent the material from entering drains or water courses.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid dust formation. Provide adequate ventilation. Avoid exceeding of the given occupational exposure limits (see section 8). Take precautionary measures against static discharges. For personal protection see section 8.
Storage	Keep tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	STEL	LTEL	Ref.
Erucamide	112-84-5		4 mg/m ³	UK EH40 Respirable dust [Ref. 1]
Erucamide			10 mg/m ³	UK EH40 Total dust [Ref. 1]

Personal protective equipment

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The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Hygiene measures General industrial hygiene practice.

Personal precautions Do not breathe dust.

Eye protection Safety glasses

Respiratory protection Dust safety masks are recommended when the dust concentration is more than 10 mg/m³. Apply technical measures to comply with the occupational exposure limits.

Skin and body protection Lightweight protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	powder
Colour	off-white
Odour	characteristic
Melting point/range	78 - 81 °C
Boiling point/boiling range	220 °C at 0,04 mbar
Flash point	229 °C [open cup]
Lower explosion limit	no data available
Lower explosion limit	no data available
Density	0,925 g/cm ³ at 25 °C Solid form
Bulk density	510 kg/m ³ at 20 °C Tapped
	460 kg/m ³ at 20 °C Untapped
Water solubility	insoluble
pH	not applicable
Partition coefficient: n-octanol/water	no data available
Dust explosion class	St2
Dust explosion constant	237 m.b./s

10. STABILITY AND REACTIVITY

Conditions to avoid Direct sources of heat.

Materials to avoid Strong oxidizing agents

Hazardous reactions Dust may form explosive mixture in air.

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Hazardous decomposition products Stable under recommended storage conditions.
In case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

11. TOXICOLOGICAL INFORMATION

		[Remarks]
Acute oral toxicity	LD50 (rat) > 2.500 mg/kg [Method: OECD Test Guideline 423]	
Acute inhalation toxicity	no data available	
Acute dermal toxicity	no data available	
Skin irritation	(rabbit) slight irritation	[Ref. 2]
Eye irritation	(rabbit) slight irritation	[Ref. 2]
Sensitisation	no data available	
mutagenic effects	Not mutagenic in Ames Test.	
Further information	Product dust may be irritating to eyes, skin and respiratory system.	

12. ECOLOGICAL INFORMATION

		[Remarks]
Biodegradability	64 % / 28 d [Method: CO ₂ Evolution Test] Inherently biodegradable.	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) > 0,10 mg/l (96 h) [Method: OECD Test Guideline 203]	[Stearamide]
Toxicity to daphnia	EC50 (Daphnia) > 0,2 mg/l (48 h) [Method: OECD Test Guideline 202]	
Water contaminating class (Germany)	WGK 1 - slightly water endangering	

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13. DISPOSAL CONSIDERATIONS

Product / Contaminated packaging In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Classification & Labelling according to EC Directives Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

16. OTHER INFORMATION

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Sources of key data used to compile the Safety Data Sheet

- [1] EH40 Workplace exposure limits (revised annually), HSE Books, PO Box 1999, Sudbury, Suffolk, CO10 2WA
- [2] The British Industrial Biological Research Association, (1988), Toxicity profile for Erucamide, BIBRA, Woodmansterne Road, Carshalton, Surrey SM5 4DS

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