

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2018

Version number 12

Revision: 19.02.2018

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

1.1 Product identifier

Trade name: **Novaphen SC 40**

Article number: 182056RW

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

For some uses this substance is handled under Strictly Controlled Conditions in accordance with EU-REACH regulation (EC 1907/2006) Article 18(4) for transported isolated intermediates.

The uses are specified in the attached document.

Application of the substance / the mixture

Intermediate for organic synthesis

Organic solvent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

RÜTGERS Germany GmbH

Kekuléstraße 30

D-44579 Castrop-Rauxel

www.ruetgers-group.com

* www.raincarbon.com

Tel : +49 2305 705 0

Fax : +49 2305 705 328

Information:

see: Section 16 (Contact)

e-mail: SDS@raincarbon.com

1.4 Emergency telephone number:

DURING THE TRANSPORT CALL ONLY:

24-hour-Emergency-Telephone-Number

GBK Contract ID: 94482: (001) 352 323 3500 (INFOTRAC)

1 800 535 5053 (USA domestic)

Emergency-Telephone-Number INTERNATIONAL:

GBK GmbH, Ingelheim: +49 (0) 61 32 / 84 463 (in national language)

in other cases:

manufacturer / supplier (1.3)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Muta. 2 H341 Suspected of causing genetic defects.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05 GHS06 GHS08 GHS09

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Trade name: Novaphen SC 40. **Signal word** Danger. **Hazard-determining components of labelling:**

Cresol (mixture)
Xylenol (mixture)
Phenol

. **Hazard statements**

H301+H311 Toxic if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.

. **Precautionary statements**

P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+352+361 IF ON SKIN (or hair): wash immediately with plenty of soap and water, and also with polyethylene-glycol 400, if possible. Remove immediately all contaminated clothing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

. **2.3 Other hazards**. **Results of PBT and vPvB assessment**

. **PBT:** Not applicable.
. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

. **3.2 Mixtures**. **Dangerous components:**

CAS: 1319-77-3 EINECS: 215-293-2 Reg.-Nr.:01-2119565142-45-0000	Cresol (mixture) Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Aquatic Chronic 3, H412	> 75%
CAS: 1300-71-6 EINECS: 215-089-3 Reg.-Nr.:01-2120114882-59-0000	Xylenol (mixture) Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Skin Sens. 1, H317	< 25%
CAS: 108-95-2 EINECS: 203-632-7 Reg.-Nr.:01-2119471329-32-0013	Phenol Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411	< 10%

. **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

. **4.1 Description of first aid measures**. **General information**

Personal protection for the First Aider.
Take affected persons out of danger area and instruct to lie down.

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Instantly remove any clothing soiled by the product.

. After inhalation

Supply fresh air.

In case of unconsciousness bring patient into stable side position for transport.

Seek medical treatment.

. After skin contact

Wash with polyethylene glycol and ethanol (2:1). Then wash thoroughly with water and soap.

Instantly wash with water and soap and rinse thoroughly.

Seek medical treatment.

. After eye contact

Rinse opened eye for several minutes under running water.

Seek medical treatment.

. After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.**. Information for doctor** Therapeutically measures: basic help, decontamination, symptomatic treatment.**. 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures**. 5.1 Extinguishing media****. Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fire with foam.**. For safety reasons unsuitable extinguishing agents** Water with a full water jet.**. 5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire

Carbon monoxide (CO)

. 5.3 Advice for firefighters**. Protective equipment:**

Wear self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

. Additional information Cool endangered containers with water spray jet.**SECTION 6: Accidental release measures****. 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

. 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.**. 6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Use neutralising agent.

Send for recovery or disposal in suitable containers.

. 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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SECTION 7: Handling and storage

. 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Keep PEG 300 / Ethanol or PEG 400 solution ready

. Information about protection against explosions and fires:

Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.

. 7.2 Conditions for safe storage, including any incompatibilities

. Storage

. Requirements to be met by storerooms and containers:

Store only in the original container.
Storehouses and workplaces must be sufficiently ventilated.

. Information about storage in one common storage facility: Store away from oxidising agents.

. Further information about storage conditions: Keep container tightly sealed.

. 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

. 8.1 Control parameters

. Components with limit values that require monitoring at the workplace:

108-95-2 Phenol

WEL	Short-term value: 16 mg/m ³ , 4 ppm
	Long-term value: 7.8 mg/m ³ , 2 ppm
	Sk

. DNELs

1319-77-3 Cresol (mixture)

Inhalative	DNEL, long-term, local effects	0.9 mg/m ³ (workers)
	DNEL, long-term, systemic effects	3.5 mg/m ³ (workers)
	DNEL, short-term, systemic effects	152 mg/m ³ (workers)

1300-71-6 Xylenol (mixture)

Dermal	DNEL, long-term, systemic effects	1 mg/kg bw/day (workers)
	DNEL, short-term, systemic effects	1.75 mg/kg bw/day (workers)
Inhalative	DNEL, long-term, systemic effects	7.05 mg/m ³ (workers)
	DNEL, short-term, systemic effects	12.34 mg/m ³ (workers)

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Dermal	DNEL, long-term, systemic effects	1.23 mg/kg bw/day (workers)
Inhalative	DNEL, long-term, systemic effects	8 mg/m ³ (workers)

. PNECs

1319-77-3 Cresol (mixture)

PNEC aqua	0.1 mg/L (freshwater)
	0.044 mg/L (intermittent releases)
PNEC sediment	327.83 µg/kg dw (freshwater)
	9.83 µg/kg dw (marine water)
PNEC aqua	3 µg/L (marine water)

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Trade name: Novaphen SC 40**1300-71-6 Xylenol (mixture)**

PNEC aqua	100 µg/L (freshwater) 30 µg/L (marine water)
PNEC sediment	0.532 µg/kg dw (marine water)
PNEC sediment	0.16 mg/kg dw (freshwater)

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PNEC aqua	7.7 µg/L (freshwater) 0.77 µg/L (marine water)
PNEC sediment	0.0915 mg/kg dw (freshwater) 0.00915 mg/kg dw (marine water)
PNEC soil	0.136 mg/kg dw

. 8.2 Exposure controls**. Personal protective equipment****. General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Take off immediately all contaminated clothing

Be sure to clean skin thoroughly after work and before breaks.

Use skin protection cream for preventive skin protection.

. Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus . In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter A (EN 14387)

Filter ABEK (EN 14387)

. Protection of hands: Only use chemical-protective gloves with CE-labelling of category III (EN 374).**. Material of gloves**

Nitrile rubber

. Recommended thickness of the material: $\geq 0,425$ mm

. Value for the permeation: 60 - 78 min

Fluorocarbon rubber (Viton) / Butyl rubber

. Recommended thickness of the material: $\geq 0,7$ mm

. Value for the permeation: > 480 min

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

. Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

. For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR

Fluorocarbon rubber (Viton)

. Eye protection:

Tightly sealed safety glasses (EN 166)

Gauze goggles

. Body protection: Protective work clothing (EN 340).

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SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form:	Fluid
Colour:	Yellowish
Odour:	Phenol-like

. pH-value (10 g/l) at 20 °C: 5 - 6

. Change in condition

Melting point/freezing point:	< 0 °C
Initial boiling point and boiling range:	190 - 205 °C (DIN 51761)

. Flash point: > 80 °C (DIN EN ISO 2719)

. Ignition temperature: > 450 °C (DIN 51 794)

. Self-inflammability: Product is not selfigniting.

. Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

. Critical values for explosion:

Lower: 1,1 Vol % (m-Kresol)

. Vapour pressure at 20 °C: 0,05 - 0,3 mbar

. Density at 20 °C 1,025 - 1,035 g/cm³ (DIN 51757)

. Solubility in / Miscibility with

Water at 20 °C: ~ 20 g/L (ASTM E 203)

. 9.2 Other information

The data in this chapter cover product groups. For product-specific data see the corresponding Technical Information.

SECTION 10: Stability and reactivity

. 10.1 Reactivity No further relevant information available.

. 10.2 Chemical stability

. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

. 10.3 Possibility of hazardous reactions No dangerous reactions known

. 10.4 Conditions to avoid No further relevant information available.

. 10.5 Incompatible materials: No further relevant information available.

. 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

. 11.1 Information on toxicological effects

. Acute toxicity

Toxic if swallowed or in contact with skin.

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Trade name: Novaphen SC 40**. LD/LC50 values that are relevant for classification:****1319-77-3 Cresol (mixture)**

Oral	LD50	mg/kg (rat) (male) o-cresol: 121 mg/kg m-cresol: 242 mg/kg p-cresol: 207 mg/kg
Dermal	LD50	mg/kg (rabbit) o-cresol: 1380 mg/kg m-cresol: 2050 mg/kg p-cresol: 301 mg/kg
Inhalative	LC0	mg/L (rat) (1 h, no mortality) o-cresol: 1,22 mg/L m-cresol: 0,71 mg/L p-cresol: 0,71 mg/L
	NOAEL	mg/kg bw/day (rat) (oral, 90 d) o-cresol: 50 mg/kg bw/d

1300-71-6 Xylenol (mixture)

Oral	LD50	980 mg/kg (rat) (OECD 425)
	NOAEL	100 mg/kg bw/day (oral, subacute; OECD 422)

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Oral	LD50	340 mg/kg (rat) (OECD 401)
	LDLo	140 mg/kg (human)
Dermal	LD50	660 mg/kg (rat) (OECD 402)
Inhalative	LC50 (8 h)	>900 (rat)

. Primary irritant effect:**. Skin corrosion/irritation**

Causes severe skin burns and eye damage.

. Serious eye damage/irritation

Causes severe skin burns and eye damage.

. Respiratory or skin sensitisation

Sensitization possible by skin contact.

May cause an allergic skin reaction.

. Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

1319-77-3 Cresol (mixture)

Oral	Carcinogenicity	(mouse) (Two-years study, feed; OECD TG 451) m,p-cresol-mix, 60:40: at ~ 1040 mg/kg/d, equivocal evidence (forestomach papilloma).
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	Mutagenicity	(bacteria) (OECD Guideline 471; [xylol mix]) negative (cells) (OECD 476 [o-/m-/p-cresol]) negative. In-vitro mammalian cell gene mutation tests, mouse lymphoma assay. (hamster) Xylol mix: Negative; V79, in-vitro mammalian cell gene mutation tests, HPRT Assay; (OECD 476). Xylol mix: Positive; CHO, in-vitro mammalian chromosome aberration test; (OECD 473). Ethylphenols mix: Positive; CHO, in-vitro mammalian chromosome aberration test; (OECD 473). (mouse) negative. o-/p-cresol: Rodent Dominant Lethal Test, oral (OECD 478). m-cresol: Bone-marrow assay, in vivo, oral (OECD 475). 3,5-/2,4-/2,6-Xylol: Micronucleus assay, in vivo, oral (OECD 474)
	Sensitization	(guinea pig) (OECD 406 [2,4-xylol]) sensitising

108-95-2 Phenol

	Carcinogenicity	Specific symptoms in animal studies: no carcinogenic effects.
	Reproductive toxicity	Specific symptoms in animal studies: no reproduction toxicity effects observed.
	Mutagenicity	Muta. Cat. 2 Irreversible damages possible. Mutagenicity in bacteria: negative Chromosome aberration in vitro: positive Micronucleous test in vitro: positive Genetic mutation in mammalian cells in vitro: positive Sister chromatid exchange in vitro: positive Micronucleus test in vivo: weakly positive

. Germ cell mutagenicity

Suspected of causing genetic defects.

. Carcinogenicity Based on available data, the classification criteria are not met.**. Reproductive toxicity** Based on available data, the classification criteria are not met.**. STOT-single exposure** Based on available data, the classification criteria are not met.**. STOT-repeated exposure** Based on available data, the classification criteria are not met.**. Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****. 12.1 Toxicity****. Aquatic toxicity:****1319-77-3 Cresol (mixture)**

IC50	mg/L (activated sludge) (2 h; respiration) p-cresol: 440 mg/L
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Trade name: Novaphen SC 40

LC50 (96 h)	mg/L (fish) p-cresol: 4,4 - > 50 mg/L (different species)
EC10 (72 h)	mg/L (algae) (DIN 38412 part 9) p-cresol: 4,6 mg/L (Desmodesmus subspicatus)
EC50 (72 h)	mg/L (algae) (DIN 38412 part 9) p-cresol: 21 mg/L (Desmodesmus subspicatus)
EC50 (48 h)	mg/L (daphnia) (DIN 38412, part 11) p-cresol: 7,7 mg/L o-cresol: 9,2 - 23,5 mg/L (different daphnia species)
EC75 (4h)	mg/L (activated sludge) (nitrification) m-cresol: 11,4 mg/L p-cresol: 16,5 mg/L o-cresol: 12,8 mg/L
NOEC (32 d)	mg/L (fish) (OECD 210) p-cresol: 1,35 mg/L (Pimephales promelas, early life stage)
NOEC (21 d)	mg/L (daphnia) p-cresol: 1 mg/L (Preliminary guideline proposal of the German Umweltbundesamt)
NOEC	mg/L (algae) (8 d; German DEV L9) o-cresol: 6,8 mg/L (Cyanobacteria Microcystis aeruginosa) m-cresol: 13 mg/L (Cyanobacteria Microcystis aeruginosa) mg/L (bacteria) (16 h; Ps. putida, Proliferation) m-cresol: 53 mg/L o-cresol: 33 mg/L mg/L (fish) p-cresol: 0,3 mg/L (Gadus morrhua, fertilised eggs; 4 d) m-cresol: 3 mg/L (Gadus morrhua, larvae; 6 d)

1300-71-6 Xylenol (mixture)

IC50	mg/L (activated sludge) (2 h; respiration) p-cresol: 440 mg/L
LC50 (96 h)	mg/L (fish) xylenole: 10,4 mg/L (Pimephelas promelas) p-/m-cresol: 4,4 - > 50 mg/L (Different species) p-/m-cresol: 6,2 - 7,2 mg/L (Different species)
EC50 (48 h)	mg/L (daphnia) (OECD 202) xylenol mix: 7,7 mg/L ethylphenole, mix: 9 mg/L o-cresol: 9,2 - 23,5 mg/L (different daphnia species)
EC75 (4h)	mg/L (activated sludge) (nitrification) m-cresol: 11,4 mg/L p-cresol: 16,5 mg/L o-cresol: 12,8 mg/L
NOEC (32 d)	mg/L (fish) (OECD 210) p-cresol: 1,35 mg/L (Pimephales promelas, early life stage)
NOEC (21 d)	mg/L (daphnia) p-cresol: 1 mg/L (Preliminary guideline proposal of the German Umweltbundesamt, state 1984-01-01)

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Trade name: Novaphen SC 40

NOEC	mg/L (bacteria) (16 h) m-cresol: 53 mg/L (Ps. putida, Proliferation) o-cresol: 33 mg/L (Ps. putida, Proliferation)
	mg/L (fish) (4 d/6 d) p-cresol: 0,3 mg/L (Gadus morrhua, fertilised eggs/larvae) m-cresol: 3 mg/L (Gadus morrhua, fertilised eggs/larvae)
NOEC (72 h)	µg/L (algae) (OECD 201) xylenol mix: 1,7 mg/L (Pseudokirchnerella subcapitata; analogy to ethylphenols, mix: 5,2 mg/L)
ErC50 (72 h)	mg/L (algae) (OECD 201) xylenol mix: > 22 mg/L (Pseudokirchnerella subcapitata)

108-95-2 Phenol

LC50 (14 d)	401 mg/kg soil (worm) Terrestrial toxicity (speziess: Eisenia fetida)
IC50 (24 h)	21 mg/L (bacteria) (speziess: Nitrosomonas sp)
LC50 (96 h)	8.9 mg/L (fish) (speziess: Oncorhynchus mykiss)
EC10 (16 d)	0.46 mg/L (daphnia) growth (speziess: Daphnia magna)
EC10 (14 d)	100 mg/kg soil (micro-organisms) Effects on microorganisms in soil
EC50 (14 d)	79 mg/kg soil (pfl) Terrestrial toxicity (speziess: Lactuca sativa)
EC50 (96 h)	61.1 mg/L (algae) freshwater, cell number (speziess: Pseudokirchnerella subcapitata)
EC50 (72 h)	76 mg/L (algae) marine water, growth rate (speziess: Entomoneis punctulata)
EC50 (48 h)	3.1 mg/L (daphnia) (speziess: Ceriodaphnia dubia)
NOEC (60 d)	0.077 mg/L (fish) (speziess: Cirrhina mrigala)

12.2 Persistence and degradability**1300-71-6 Xylenol (mixture)**

Persistence and degradability	(OECD 301 D, Closed Bottle Test) 39 % COD removal (28 d): inherently biodegradable.
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108-95-2 Phenol

Persistence and degradability	Abiotic: Air (indirect photo-oxidative degradation by reaction with OH-radicals): Half-life time (DT50) approx. 14 d Biotic: Activated sludge: Aerob: 62 % / 100 h, readily biodegradable (OECD 301C) Anaerob: 80,1 % / 50 d, quick biodegradation (ECETOC method) Water: 86 - 96 % / 20 d, readily biodegradable (BOD-test APHA)
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Trade name: Novaphen SC 40**. 12.3 Bioaccumulative potential****1300-71-6 Xylenol (mixture)**

Bioaccumulative potential	(expected to be low) logPow = 2 - 2,5
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108-95-2 Phenol

Bioaccumulative potential	(fish) BCF = 17,5 No significant bioaccumulation anticipated. (spezies: Danio rerio)
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. 12.4 Mobility in soil**1319-77-3 Cresol (mixture)**

Mobility in soil	expected to be high
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1300-71-6 Xylenol (mixture)

Mobility in soil	Moderate to high (based on water solubility).
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108-95-2 Phenol

Mobility in soil	high: Soil sorption coefficient Koc: 82,8 L/kg, at 20 °C (calculated from logPow, measured). The adsorption coefficient indicates a low adsorption potential of phenol to organic matter in soil. Henry constant (20 °C, calculated) = 0,022 Pa*m ³ /mol indicating low volatility from aqueous solutions.
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. Additional ecological information:

. General notes: Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

. 12.5 Results of PBT and vPvB assessment**108-95-2 Phenol**

Results of PBT and vPvB assessment	The substance does not fulfill the criteria for PBT/vPvB according to Annex XIII of the REACH-Regulation.
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. PBT: Not applicable.

. vPvB: Not applicable.

. 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

. 13.1 Waste treatment methods

. Recommendation Remove according to local authority recommendations, e.g. convey to a suitable incinerator.

. European waste catalogue

The disposal of waste within the EU is regulated by Directive 2008/98/EC

The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

. Uncleaned packagings:

. Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information

. 14.1 Substance Index Number	
. ADR/RID, IMDG, IATA	UN2022
. 14.2 UN proper shipping name	
. ADR/RID	2022 CRESYLIC ACID, ENVIRONMENTALLY HAZARDOUS
. IMDG	CRESYLIC ACID (xylenols), MARINE POLLUTANT
. IATA	CRESYLIC ACID
. 14.3 Transport hazard class(es)	
. ADR/RID	
. Class	6.1 Toxic substances.
. Label	6.1+8
. IMDG	
. Class	6.1 Toxic substances.
. Label	6.1/8
. IATA	
. Class	6.1 Toxic substances.
. Label	6.1 (8)
. 14.4 Packing group	
. ADR/RID, IMDG, IATA	II
. 14.5 Environmental hazards:	
. Marine pollutant:	Symbol (fish and tree)
. Special marking (ADR/RID):	Symbol (fish and tree)
. 14.6 Special precautions for user	
. Hazard Index Number:	Warning: Toxic substances.
. EMS Number:	68
	F-A,S-B
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
	-
. Transport/Additional information:	
. ADR/RID	
. Excepted quantities (EQ):	E4
. Limited quantities (LQ)	100 ml
. Transport category	2
. Tunnel restriction code	D/E
. UN "Model Regulation":	UN 2022 CRESYLIC ACID, 6.1 (8), II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

. Directive 2012/18/EU

. Named dangerous substances - ANNEX I None of the ingredients is listed.

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Trade name: Novaphen SC 40**. Seveso category**

H2 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

. Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t**. Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t****. REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**. 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

. Department issuing data specification sheet:

Produktsicherheit / Regulatory Affairs Tel.: +49 2305 705 129 / e-mail: SDS@raincarbon.com

. Contact:

see: Manufacturer/Supplier

Tel.: +49 2305 705 0

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

. SourcesGESTIS (<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>)CEFIC-ERI-Card (<http://www.ericards.net>)**. * Data compared to the previous version altered.**

Replaces material safety data sheet from 18.07.2016

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