

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 13

Revision: 07.05.2015

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

1.1 Product identifier

Trade name: Creosote EN 13991 Grade C GX-plus

Article number: 103207

CAS Number:

8001-58-9

EC number:

232-287-5

Index number:

648-101-00-4

Registration number 02-2119552711-43-0000

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

No further relevant information available.

Application of the substance / the mixture

Biocide

Wood-preservative impregnation

Wood preservatives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

RÜTGERS Basic Aromatics GmbH

Kekuléstraße 30

D-44579 Castrop-Rauxel

www.ruetgers-group.com

Info.de@ruetgers-group.com

Tel : +49 2305 705 0

Fax : +49 2305 705 521

Information:

see: Section 16 (Contact)

e-mail: MSDS@ruetgers-group.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)

Emergency-Telephone-Number INTERNATIONAL:

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

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



GHS08 health hazard

Carc. 1B H350 May cause cancer.

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.



GHS09 environment

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



GHS07


Trade name: Creosote EN 13991 Grade C GX-plus

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.


Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 T; Toxic
Carc. Cat. 2


R45: May cause cancer.

 Xn; Harmful


R62-63: Possible risk of impaired fertility. Possible risk of harm to the unborn child.

 Xi; Irritant

R36/38: Irritating to eyes and skin.

 Xi; Sensitising

R43: May cause sensitisation by skin contact.

 N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

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

Hazard pictograms

GHS07 GHS08 GHS09

Signal word Danger**Hazard-determining components of labelling:**

Creosote

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P272 Contaminated work clothing should not be allowed out of the workplace.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P404 Store in a closed container.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Trade name: Creosote EN 13991 Grade C GX-plus**. Additional information:**

Restricted to professional users. For use in industrial installations or professional treatment only.

Read attached instructions before use.

Use as wood preservative.

Freshly treated timber must be stored after treatment under shelter or on impermeable hard standing, or both, to prevent direct losses to soil or water. Any losses must be collected for reuse or disposal.

HSE Number: 7957 (UK only); PCS Number: 96858 (Grade B, IE only).

Active substance: Creosote; CAS: 8001-58-9; (> 900 kg/1000 kg).

Authorisation number: xxxx; Mutual recognition of authorisation: yyyy.

. **2.3 Other hazards** elevated transport- and storage temperature 70 - 90 °C

. Results of PBT and vPvB assessment

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients**. 3.1 Substances****. CAS No. Designation:**

8001-58-9 Creosote

. Identification number(s):

. **EC number:** 232-287-5

. **Index number:** 648-101-00-4

. Dangerous components:

CAS: 8001-58-9 EINECS: 232-287-5 Reg.-Nr.:02-2119552711-43-0000	Creosote T Carc. Cat. 2 R45; Xn R62-63; Xi R36/38; Xi R43; N R51/53 Carc. 1B, H350; Repr. 2, H361fd; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	> 90%
CAS: 91995-70-9 EINECS: 295-332-8 Reg.-Nr.:01-2119474201-49-xxxx	Extracts (petroleum), deasphalted vacuum residue solvent	< 10%

. **Additional information** For the wording of the listed risk 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.

Instantly remove any clothing soiled by the product.

. **After inhalation** Supply fresh air; consult doctor in case of symptoms.

. After skin contact

After contact with the hot product, cool rapidly with cold water.

Clean affected area with soap and plenty of water.

Seek medical treatment.

. **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

. After swallowing

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

. **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.

Trade name: Creosote EN 13991 Grade C GX-plus

- . **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:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
- . **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing (see chapter 8).
Ensure adequate ventilation
- . **6.2 Environmental precautions:** Inform respective authorities in case product reaches water or sewage system.
- . **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
- . **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.

SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**
No special precautions necessary if used correctly.
Ensure good ventilation/exhaustion at the workplace.
- . **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** 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.

Trade name: Creosote EN 13991 Grade C GX-plus

SECTION 8: Exposure controls/personal protection

. 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.

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

. Breathing equipment:

Use breathing protection in case of insufficient ventilation.

Filter A

Filter ABEK

. Protection of hands:

Heat protection gloves

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

. Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

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 through 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:

Nitril rubber

Butyl rubber

. As protection from splashes gloves made of the following materials are suitable:

Nitril rubber, NBR

Butyl rubber, BR

. Eye protection: Tightly sealed safety glasses.

. Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form: Fluid

Colour: Light brown

Odour: aromatic

. Change in condition

Boiling point/Boiling range: 250 - 400 °C

Crystallisation temperature / range: < 50 °C (EN 13991 A)

Flash point: > 105 °C (DIN EN ISO 2719)

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

Trade name: Creosote EN 13991 Grade C GX-plus

. Self-inflammability:	Product is not selfigniting.
. Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
. Vapour pressure at 25 °C:	< 10 Pa (OECD 104)
. Density at 20 °C	1.03 - 1.17 g/cm ³ (DIN 51 757)
. Solubility in / Miscibility with Water at 20 °C:	< 0.1 g TOC/L (net weight: 10 g/L)
. Viscosity:	
kinematic at 100 °C:	< 5 mm ² /s (DIN 51 366)
. 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- . **10.1 Reactivity**
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- . **10.3 Possibility of hazardous reactions**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
- . **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:**

. LD/LC50 values that are relevant for classification:**8001-58-9 Creosote**

Oral	LD50	> 3500 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC50	> 5 mg/L (rat) (OECD 403) aerosol (analogy to structure-related tar oil)

- . **Primary irritant effect:**
- . **on the skin:**
In combination with UV-light, irritation of skin (phototoxic effects) may occur.

8001-58-9 Creosote

Irritation of skin	Irritation	positive (rabbit) (OECD 404)
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- . **on the eye:** Irritation of the mucous membranes is possible.
- . **Sensitisation:** Sensitization possible by skin contact.

Trade name: Creosote EN 13991 Grade C GX-plus
. Additional toxicological information:
8001-58-9 Creosote

Carcinogenicity	(.) weakly positive: mouse, skin (OECD 451) (analogy to structure-related tar oil, < 50 ppm benzo(a)pyrene content (CAS-No. 50-32-8))
Mutagenicity	(.) not mutagenic: based on < 50 ppm benzo(a)pyrene content (CAS-No. 50-32-8); negative: Ames test (OECD 471); negative: Chromosomal aberration / human lymphocytes (OECD 473); weakly positive: Mouse Lymphoma Assay (OECD 476); negative: in vivo Micronucleus test, mouse (OECD 474); negative: in vivo Dominant Lethal Assay (DLA), rat (OECD 478) (analogy to structure-related tar oil)
Repeated dose toxicity	(.) NOAEL (rat, 90 d, dermal) = 400 mg/kg/d no adverse effects at highest dose tested (OECD 411) (analogy to structure-related tar oil) NOAEL (rat, 90 d, inhalation) = 22 mg/m ³ (aerosol+gas) (OECD 413) nasal chronic inflammation, bw loss, increase in liver weight (analogy to structure-related tar oil)
Reproductive toxicity	(.) weak potential for reprotoxic effects in rats (OECD 414, OECD 416) with NOAEL(devel.) = 50 and 25 mg/kg/d, respectively (no teratogenic effects, ambiguous effects on fertility) (analogy to structure-related tar oil)
Sensitization	(.) positive: maximization test GPMT, guinea pig (OECD 406) (analogy to structure-related tar oil)

SECTION 12: Ecological information
. 12.1 Toxicity
. Aquatic toxicity:
8001-58-9 Creosote

EC50 (48 h) (static)	1.14 mg/L (daphnia) (OECD 202) nominal (analogy to structure-related tar oil)
EL50 (72 h) (static)	26 mg/L (algae) (OECD 201)
LC50 (96 h) (static)	4.1 - 6.6 mg/L (fish) (OECD 203) nominal (analogy to structure-related tar oil)

. 12.2 Persistence and degradability Not easily biodegradable

. 12.3 Bioaccumulative potential
8001-58-9 Creosote

Bioaccumulative potential	(fish) moderate with individual BCF values in fish: 500 < BCF < 2000 Some literature values may extend beyond 2000.
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Trade name: Creosote EN 13991 Grade C GX-plus
. 12.4 Mobility in soil
8001-58-9 Creosote

Mobility in soil	(.) low mobility anticipated: $\sim 3.0 < \log K_{oc} < \sim 5.5$ (calculated from logPow of relevant components)
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. Ecotoxic effects:
. Remark:
8001-58-9 Creosote

NOEC (28 d)	10 mg/kg dw (Collembola) (ISO 11267, 1999) terrestrial toxicity
	1000 mg/kg dw (Soil microorganisms (C transformation)) (OECD 217) terrestrial toxicity
	316 mg/kg dw (Soil microorganisms (N transformation)) (OECD 216) terrestrial toxicity

. Additional ecological information:
. General notes:

Do not allow product to reach underground or surface water or sewage system.
Danger to drinking water if even small quantities leak into soil.

. 12.5 Results of PBT and vPvB assessment

. **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.

SECTION 14: Transport information
. 14.1 Substance Index Number

. **ADR, IMDG, IATA** UN3082

. 14.2 UN proper shipping name

. ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote)
. IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote), MARINE POLLUTANT
. IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote)

Trade name: Creosote EN 13991 Grade C GX-plus

. 14.3 Transport hazard class(es)	
. ADR, IMDG, IATA	
. Class	9 Miscellaneous dangerous substances and articles.
. Label	9
. 14.4 Packing group	
. ADR, IMDG, IATA	III
. 14.5 Environmental hazards:	
. Marine pollutant:	Yes (P) Symbol (fish and tree)
. Special marking (ADR):	Symbol (fish and tree)
. Special marking (IATA):	Symbol (fish and tree)
. 14.6 Special precautions for user	
. Hazard Index Number:	Warning: Miscellaneous dangerous substances and articles. 90
. EMS Number:	F-A,S-F
. 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Listed in IBC Code Chapter 17: Shipping Name: Creosote (coal tar) Pollution Category: X Ship type: 2
. Transport/Additional information:	
. ADR	
. Excepted quantities (EQ):	E1
. Limited quantities (LQ)	5L
. Transport category	3
. Tunnel restriction code	E
. UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote), 9, III

SECTION 15: Regulatory information

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

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

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

. Hazard pictograms



GHS07 GHS08 GHS09

. Signal word Danger

. Hazard-determining components of labelling:

Creosote

. Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Trade name: Creosote EN 13991 Grade C GX-plus

- H317 May cause an allergic skin reaction.
 H350 May cause cancer.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P262 Do not get in eyes, on skin, or on clothing.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P404 Store in a closed container.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations

Other regulations, limitations and prohibitive regulations

COMMISSION REGULATION (EC) No 552/2009 of 22 June 2009
 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XVII;
 conditions of restriction for substances, groups of substances or mixtures
 COMMISSION DIRECTIVE 2011/71/EU of 26 July 2011
 amending Directive 98/8/EC of the European Parliament and of the Council to include creosote as an active substance in Annex I thereto

- 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

- H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H350 May cause cancer.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.
 R36/38 Irritating to eyes and skin.
 R43 May cause sensitisation by skin contact.
 R45 May cause cancer.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R62 Possible risk of impaired fertility.
 R63 Possible risk of harm to the unborn child.

Department issuing data specification sheet:

Produktsicherheit / Regulatory Affairs Tel.: +49 2305 705 129 / e-mail: MSDS@ruegters-group.com

- Contact:** see: Manufacturer/Supplier

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
 IATA: International Air Transport Association
 P: Marine Pollutant
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals

**Trade name: Creosote EN 13991 Grade C GX-plus**

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 1B: Carcinogenicity, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

. Sources

IUCLID Data-Set (<http://esis.jrc.ec.europa.eu/> "ESIS : European chemical Substances Information System")
GESTIS Stoffdatenbank (<http://www.hvbg.de/d/bia/fac/zesp/sept.htm>)
CEFIC-ERI-Card (<http://www.ericards.net>)

. * Data compared to the previous version altered.

Replaces material safety data sheet from 21.04.2015

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