


<p><u>Centrala Obrotu Towarami</u> <u>Masowymi</u> <u>DAW – BYTOM Sp. z o. o.</u></p> 	<p>SAFETY DATA SHEET prepared in accordance with Regulation (EC) No 1907/2006 European Parliament and of the Council of 18 December 2006. concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with later amendments</p>	<p>Date of Issue: 21.07.2005 Revision Date: 07.03.2017 Page: 1/12</p>
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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier **CREOSOTE OIL GRADE B**

[creosote]

WE number: 232-287-5

CAS number: 8001-58-9

Index number: 648-101-00-4

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses

Creosote oil has fungicidal, insecticidal and repellent properties.

Used for preventive treatment of 3- and 4- use class wood:

- impregnation of wooden sleepers and poles;
- impregnation in agricultural sector e.g. fruit tree and hop/vineyard stakes, fences, anti-hail curtains).

Uses advised against

It cannot be used to protect wood used in horticulture and in municipal individual constructions.

Creosote may only be used under the conditions mentioned in point 2 of the second column of entry No 31 in Annex XVII to Regulation (EC) No 1907/2006.

1.3 Details of the supplier of the safety data sheet

CENTRALA OBROTU TOWARAMI MASOWYMI DAW – BYTOM Sp. z o. o.

ul. Wrocławska 8, 41 – 902 Bytom

tel. 00 48 32 2814646, fax. 00 48 32 2815921

e-mail: daw@daw.bytom.pl, www.daw.bytom.pl

1.4 Emergency telephone number (Poland)

COTM DAW-BYTOM Sp. z o.o.: 0048 32 2814646, 7⁰⁰ – 15⁰⁰

112 (emergencies), 998 (fire-brigade), 999 (medical)


2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

according to Regulation 1272/2008

Carc. 1B, H350; Repr. 1B, H360F; Repr. 2, H361d; Skin Irrit. 2, H315; Skin Sens. 1, H317
Aquatic acute 1, H400; Aquatic chronic 1 (M=10), H410

2.2 Label elements

according to Regulation 1272/2008	
	
Signal Word	Danger



Supplemental label information

RCH002 Restricted to professional users.

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H360F	May damage fertility.
H361d	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

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.
P308, 313	If exposed or concerned: Get medical advice/attention.
P332,313	If skin irritation occurs: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

2.3 Other hazards

Criteria for PBT, vPvB: This product contains substances that are assessed to be a PBT (Anthracene)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

Name of hazardous substance	Percentage	WE No CAS No	CLP classification (1272/2008/EC)
Creosote	100%	232-287-5 8001-58-9	Carc. 1B, H350; Repr. 1B, H360F; Repr. 2, H361d; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic acute 1, H400; Aquatic chronic 1 (M=10), H410
components ⁽¹⁾ :			
Phenantrene	c. 10%	201-581-5 85-01-8	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT Single 3, H335; Aquatic Acute 1, H400;



Naphtalene	c. 10%	202-049-5 91-20-3	Flam. Sol. 1, H228; Acute Tox. 4, H302; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;
Acenaphthene	c. 10%	201-469-6 83-32-9	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT Single 3, H335; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;
Fluoranthene	c. 5%	205-912-4 206-44-0	Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;
Pyrene	c. 5%	204-927-3 129-00-0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410;
Fluorene	c. 5%	201-695-5 86-73-7	Aquatic Chronic 4, H413
Benzo(a)pyrene	c. 0,005%	200-028-5 50-32-8	Skin Sens. 1, H317; Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;
Anthracene	c. 0,5%	204-371-1 120-12-7	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT Single 3, H335; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;


- full text of R-phrases and Hazard Statements; see Section 16
- Lack of registration number, substance considered hazardous. It is a component of UVCB mixtures. The substance is mentioned to enable the recipient to identify the hazards of the substance or mixture. The product is a complex mixture of not thoroughly identified composition (UVCB).

4. FIRST AID MEASURES

4.1 Description of first aid measures

General instructions:

If health problems occur, or if you suspect that your health may have been affected, contact your physician and provide him the information stated on this safety data sheet. If the affected person has lost consciousness or if you believe that he/she may lose consciousness, transport the person to a healthcare provider in a stabilized position, lying on his/her side. It is necessary to keep the vital functions going until a physician arrives (i.e. check heart rate, ensure artificial respiration, heart massage).

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When inhaled:

Move the injured away from the source of exposure. Provide fresh air, warmth and rest, if possible, place the injured person in a comfortable sitting position. Rinse their nose and mouth with water. Seek medical advice immediately. If respiratory arrest occurs, perform artificial respiration.

In case of contact with skin:

In case of contact with cold product, remove contaminated clothing, wash the affected skin with soap and water for at least 15 minutes. If a large skin surface has been affected, seek medical treatment. Disinfect the lesions. In contact with hot product, in case of first-degree burns (painful red spots) and second-degree burns (painful blisters), cool the affected skin surface with a stream of cold water. In case of third-degree burns (black spots, skin crumbling off on the outlines of the lesion, usually painless), do not cool the injured body parts, but cover them with a clean piece of cloth. The injured person must not experience body heat loss. Immediately seek medical treatment.

In case of contact with eyes:

Do not rub your eyes. Immediately flush the open eye carefully with a stream of pure tepid water, even when it is difficult to keep the eyes open, in a direction from the outer towards the inner corner of the eye. If the injured person is wearing contact lenses, they must be removed immediately. Seek oculist's attention if the symptoms not subside.

When swallowed:

The possibility of accidental swallowing is rather small. When swallowed, rinse the nose, mouth and throat with water. NEVER INDUCE VOMITING OR ADMINISTER FLUIDS TO AN UNCONSCIOUS PERSON. Contact the doctor.

4.2 Most important symptoms and effects, both acute and delayed:

General information: The severity of the symptoms described will vary depending on the concentration and period of exposure.

- Inhalation: Irritation of nose, throat and airways, tickly cough.
- Skin contact: Prolonged contact may cause redness, irritation and dry skin.
- Eye contact: Irritation, burning and watery eyes.
- Ingestion: Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media: Powder or snow fire extinguisher. In the case of a large-scale fire, use heavy foam. Cool surrounding containers and equipment with a water curtain.
- Unsuitable extinguishing media: Direct water jet, as this may cause frothing and may spread the fire.


5.2 Special hazards related to the substance or mixture

Hazardous combustion products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (C O₂). Hydrocarbons.

Unusual Fire & Explosion Hazards

During fire conditions, vapours and decomposition products may be released, forming flammable/explosive mixtures in air.

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Specific hazards

Containers may burst violently when heated, due to excess pressure build-up.

5.3 Advice for firefighters

Special Fire Fighting Procedures

Remove container from fire area if it may be done without taking a risk. Cool containers exposed to flames with water, until well after the fire is out. Keep run-off water out of sewers and water sources. Perform water control.

Protective equipment for fire-fighters

Leave danger zone immediately. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency person

Avoid the vapours of the substance and its contact with skin and eyes. In case of spilt substance, mind the slippery surfaces. Close off the place of the accident. Send away all people not involved in rescue actions. Remove or switch off all the ignition sources. Leaking tanks should be driven to safe locations, protected against leaking by closing off or sealing the place of the leakage. It is crucial to monitor the development of emergency on site. Use full protective clothing or personal emergency equipment described in Section 8.

6.1.2. For emergency responders

When managing the emergency, use an isolation breathing apparatus and full anti-chemical suit. If this is not possible, use the personal emergency equipment described in Section 8.

6.2 Environmental precautions

Prevent the substance from leaking into the sewage system, ground and surface waters, or into the soil. If the leakage source is large, raise an emergency alarm immediately and contact adequate authorities.

6.3 Methods and material for containment and cleaning up

Stop the leak if possible without taking risks. Do not touch spilled material. The leaked liquid should be collected and pumped into a container suitable for further processing or disposal. The remainder should be absorbed by a suitable porous material (sand, vapex, vermiculite or infusorial earth). Good ventilation should be ensured for proper storage and emergency maintenance.

Disposal of the substance is governed by the valid waste handling legislation, see also Section 13.


6.4 Reference to other sections

- When managing the emergency, use an isolation breathing apparatus and full anti-chemical suit. If this is not possible, use the personal emergency equipment described in Section 8.
- Disposal of the substance is governed by the valid waste handling legislation, see also Section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid inhalation of vapors/mists as well as contact with eyes and skin. Ensure good vapor removal. Apply protective skin cream before and after work. In order to reduce skin's sensitivity to sun, a protective lotion (against the sun (SPF15

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+) should be applied. It can also be used before application of cream. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers in a dry and cool place. Secure the containers from mechanical damage. Effectively, continuously ventilate storage areas, apply personal protective measures with accordance to paragraph 8. Handle the product in a manner that prevents any possible leakage or spillage, prevent product contact with open flames, sparks or hot surfaces. Tanks should be equipped with steam coils for heating the tank contents in order to prevent precipitation at low temperatures. Risk mitigation measures include freshly treated wood storage in the room or on impermeable hard surface to prevent direct release of the product to soil or water. All the spilled material must be collected for reuse or disposal. Keep away from oxidizing agents.

7.3. Specific end use(s)

Described in section 1.2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Poland (Journal of Laws No 817 of 2014 item 1833 of 29.11.2002 and as amended)

Name	NDS [mg/m ³]	NDSCh [mg/m ³]
Naphthalene	20	50
Benzo[a]pyrene	0.002	not set
Biphenyl	1	2

NDS - occupational exposure limit

NDSCh - short- term occupational exposure limit (30 minutes)

European Union (Directives 2006/15/EC; 2009/161/EC)

Name	TWA (8-hour limit)		STEL (Short-term limit)	
	[mg/m ³]	[ppm]	[mg/m ³]	[ppm]
Naphthalene	50	10	-	-
Benzo[a]pyrene	-	-	-	-
Biphenyl	-	-	-	-

TWA: Measured or calculated in relation to the reference period of eight hours as a time weighted average.


STEL: The limit value that should not be exceeded and that is equal to the period of 15 minutes.

Other exposure limits, e.g.: <http://limitvalue.ifa.dguv.de/>

8.2. Exposure controls



Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhaling vapors. All handling is to take place in well-ventilated area.

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Respiratory equipment: Respiratory protection, such as full face mask with particle filter P2 or preferably P3 in combination with gas filter A (brown) should be worn at critical work tasks when there is a risk of inhalation exposure.

For emergency works wear a self-contained breathing apparatus.

Eye protection: Wear approved safety goggles. Use face shield in case of splash risk.

Hand protection: Wear protective gloves, oil impermeable. Chemical resistant (coated) coveralls, or equivalent, should be worn over the regular work clothes at critical work tasks when there is a risk of exposure, and a thinner pair of (cotton) gloves should be worn under the chemical resistant gloves.

Skin protection: Protection suit and shoes must be worn. Unprotected skin should be covered with adequate protective cream before the work begins. In case of potential contact with creosote or creosoted wood, long sleeved shirts and long pants must be worn.

Other Protection: Provide eyewash station. Wear full body industrial type work clothing, including chemical resistant boots.

Hygiene measures: Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Contaminated clothing should be placed in closed container until disposal or decontamination. Warn the cleaning personnel of chemical's hazardous properties. Wash hands at the end of each work shift and before eating, smoking and using the toilet. At work, do not eat, drink nor smoke.


9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

European Standards	PN-EN 13991:2003
Appearance:	Liquid, colour: light to dark brown
Odour:	Characteristic tar odour
Odour threshold:	Perceptible odor, not determine threshold
pH (in 20 °C):	not determined
Crystallization point (°C):	Max 23
Boiling range (°C):	> 200
Flash point (°C):	> 115
Evaporation rate:	not determined, very low below 200°C
Flammability:	Non flammable liquid (according to CLP, DPD classification)
Explosive limits:	none
Vapour density:	not determined
Vapour pressure:	not determined
Density (20 °C, g/cm ³):	1.02 – 1.15
Solubility:	
in water: (20 oC):	Almost insoluble
in organic solvents (20 oC):	Soluble in organic solvents
Partition coefficient: n-octanol/water:	not determined
Self-ignition point (°C):	> 425 (1013hPa)
Decomposition temperature (°C):	not determined
Viscosity:	not determined
Explosive properties:	none
Oxidizing properties:	none

9.2 Other information

Water content (m/m) %:	Max 1
Phenols water-extracted (m/m) %:	Max 3

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Ingredients insoluble in toluene (m/m) %: Max 0.4

10. STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with the product.

10.2. Chemical stability

The mixture is stable under normal ambient and anticipated storage and handling conditions.

10.3. Possibility of hazardous reactions

No information given.

10.4. Conditions to avoid

Excessive heating causes the emission of hazardous substances into the environment. Contact with exposed flame, hot surfaces, and sparks, formation of explosive mixtures of the substance vapours with air.

10.5. Incompatible materials

Concentrated strong acids, strong oxidizing agents.

10.6. Hazardous decomposition products

The substance does not decompose. Toxic vapour and fumes are produced as a result of fire (carbon monoxide, carbon dioxide, hydrocarbons).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 (oral, rat) > 3500 mg/kg

LD50 (dermal, rat) > 2500 mg/kg

LC 50 (inhalation, rat) > 5000 mg/m³ (aerosol)

The threat caused by the inhalation:

Based on existing data the classification criteria are not met.

Ingestion:

One may experience discomfort after eating. Product's ingestion may cause stomach pain or vomiting.

Effect on skin:

May cause irritation in contact with skin, increased by sunlight.

Serious eye damage/irritation:

Causes irritation.

Health warnings:

It is a known or suspected carcinogen for humans. The product contains small amounts of sensitizing substances that may cause allergies in sensitized individuals after repeated contact.

Routes of exposure:

The skin and/or eyes. Inhalation. Ingestion.

Organs particularly vulnerable:


No specific organs are particularly vulnerable.

Symptoms

No specific symptoms noted, but this product may have a negative impact on the health of the public or individuals.

Medical attention

In case a rash develops, one should be directed to an allergist for examination of allergic eczema (dermatitis).

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Specific effect:

The product contains a substance/group of substances that may be harmful to unborn children and pose a risk of impaired fertility. It contains a substance/group of substances that can cause cancer.

12. ECOLOGICAL INFORMATION

The product contains substances harmful to the aquatic environment, which can cause long-term adverse effects to the aquatic environment.

12.1 Toxicity

Acute toxicity - fish

LC50: 0.7 mg / l for freshwater and marine fish

Acute toxicity - aquatic invertebrates

EC50 48 hours: 1.14 mg / l for Daphnia magna (Daphnia)

12.2 Persistence and degradability

Product distribution:

No tendency to degrade

Stability (hydrolysis)

Insoluble in water

Biodegradation

Insoluble in water

12.3 Bioaccumulation

Bioaccumulation potential.

Bioaccumulation is unlikely due to low solubility in water.

Bioaccumulation factor

Concentration factor (BCF) for the individual components of creosote - 70 – 4,000

Partition coefficient

Insoluble in water

12.4 Mobility in soil

Presumably low mobility in soil and sediments. Insoluble in water.

12.5 Results of PBT and vPvB

This product contain substances that are assessed to be a PBT (Anthracene).

12.6 Other adverse effects


No information provided

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of mixture disposal

The mixture must be handled in compliance with the valid legal regulations governing the disposal of waste as well as with other environmental regulations. Leaked product must be handled in the manner described in Section 6.3, then handed over to a person authorised to handle hazardous waste. It is recommended to dispose of this mixture by making it a

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material that can be further used for energy generation purposes. Contact the producer for any additional information. Recommended classification of the waste: 05 06 99.

Methods of disposal: Proceed in the same manner as when disposing of the product. Tanks may be used only after preliminary cleaning in authorised purification plants.

contaminated packaging disposal

Legal regulations governing the disposal and handling of waste

Poland
Regulation of the Minister of Environment of 9 December 2014 on the waste catalog (Journal of Laws No. 2014, item 21, as amended)
Act of 14 December 2012 on waste (Journal of Laws No. 2013, item 21, as amended)
Act of 11 May 2001 on the obligations of the entrepreneurs concerning certain wastes, as well as product and deposit charges (Journal of Laws No 2014, item. 1413, as amended).
Act of 13 June 2013 on packaging and packaging waste (Journal of Laws 2013, item 888)

The European Union
EP and Council Directive 2008/98/ES on waste
Council Directive 1991/689/EHS on hazardous waste

14. TRANSPORT INFORMATION

14.1 UN number (ONZ): 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID, I.N.O. (CREOSOTE)

14.3 Transport hazard class: 9



14.4 Packing group: III

14.5 Environmental hazards:



14.6 Special precautions for user:

EMS: F-A, S-F

Emergency action code: 3Z


No danger (ADR): 90

Code Tunnel restriction: (E)

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Pollution Category (IBC) Category X

Ship Type (IBC) Ship Type 2 (IMO2)

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15. REGULATORY INFORMATION

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

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

The European Union

1. Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (with later amendments).
2. Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (with later amendments).
3. Regulation of the European Parliament and Council Regulation (EU) No 528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products (with later amendments).

Poland

4. Act of 9 October 2015 on biocidal products (Journal of Laws 2015 item 1926 along with later amendments).
5. Regulation of the Minister of Environment of 9 December 2014 on the waste catalog (Journal of Laws No. 2014, item 21, as amended)
6. Act on the chemical substances and their mixtures of 25 February 2011 (Journal of Laws No.63, item 322 with later amendments).
7. Regulation of the Minister of Health on the criteria and method classification of chemical substances and preparations of 10 August 2012 (Journal of Laws 2012 item 1018).
8. Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protective equipment (Journal of Laws No.259, item 2173)
9. Act of 19 August 2011 on the carriage of dangerous goods (Journal of Laws No.227, item 1367 with later amendments).
10. Regulation of the Minister of Labour and Social Policy of 6 June 2014 on the maximum permissible concentrations and intensities of harmful factors in the working environment (Journal of Laws 2014, item 817 with later amendments).
11. Government Statement of 26 July 2005 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 (Journal of Laws No.178, item 1481.)

15.2 Chemical safety assessment

The mixture is of limited use in accordance with Annex XVII of the Regulation 1907/2006/EC (item 31)


Chemical Safety Assessment is not required.

The product has been filed for registration as biocide.

16. OTHER INFORMATION

Explanation of symbols used in the text:

- H228** Flammable solid
- H302** Harmful if swallowed
- H315** Causes skin irritation
- H317** May cause an allergic skin reaction
- H319** Causes serious eye irritation

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H335 May cause respiratory irritation
H350 May cause cancer
H360FD May damage fertility. May damage the unborn child.
H360F May damage fertility
H361d Suspected of damaging fertility. Suspected of damaging the unborn child
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H413 May cause long-lasting harmful effects to aquatic life

CLP (European Classification, Labelling and Packaging system (Regulation 1272/2008/EC)
UVCB Substances: (Substances of Unknown or Variable composition, Complex reaction products or Biological materials.) Su
PBT: (Persistent, Bio- accumulable, Toxic)
CMR: Carcinogenic, Mutagenic, Reproduction
RCR: (Risk Characterisation Ratio)

Changes in MSDS

Update classification (points 2.1, 3.2), data update, adjustment of the document to the form in accordance with Regulation 1907/2006/EC and Regulation 1272/2008.

Contact for more information: C.O.T.M. DAW – BYTOM Sp. z o. o
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Instytut Chemicznej Przeróbki Węgla
ul. Zamkowa 1, 41-803 Zabrze
Tel. 0048 32 2710041

Director of Laboratory Research Center:
Dr. Eng. Teresa Kordas
Dr. Eng. Zbigniew Robak

Additional information

Sources:

Information about suppliers of the material, the results of research

Other sources of information:

ESIS - European Chemical Substances Information System

The information on this Material Safety Data Sheet is based upon the present state of our knowledge about the product and it is provided as suggestion for safe handling of a product while application, transport, storage as well as handling in case of unintended release or fire.

It does not constitute any warranty of the product properties or its quality specification and may not be basis for any complaints and legal liability.

The appropriate use of the information as well as the way product is used is not controlled by the manufacturer. The user is obliged to take appropriate steps to meet the requirements of national and European law.

The end of the Safety Data Sheet