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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name

: Lubricating Metal

Article-No.

: 70-85

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

Use of the

: Grease

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

TECHNO-SERVICE GmbH Detmolder Str. 515 D-33605 Bielefeld

Tel: +49 (0) 521 924440 Fax: +49 (0) 521 207432

verkauf@metaflux.de www.metaflux.de

E-mail address

Responsible/issuing person

: info@metaflux.de Sales department

1.4 Emergency telephone number

+49 (0) 521 924440 during normal working hours

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting

effects.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

according to Regulation (EC) No. 1907/2006 (REACH) - GB



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements

: H412

Harmful to aquatic life with long lasting

effects.

Precautionary statements

: Prevention:

P273

Avoid release to the environment.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature

: solid lubricant

Mineral oil. lithium soap

Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]			
zinc powder - zinc dust (pyrophoric)	7440-66-6 231-175-3 030-001-00-1	N; R50-R53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5			
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25			
Substances with a workp	Substances with a workplace exposure limit :						
Graphite	7782-42-5 231-955-3			>= 1 - < 10			
molybdenum disulphide	1317-33-5 215-263-9			>= 1 - < 10			
titanium dioxide	13463-67-7 236-675-5			>= 1 - < 10			
aluminium	7429-90-5 231-072-3	F; R11	Flam. Sol. 1; H228	>= 1 - < 10			
Talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9			>= 1 - < 10			

For the full text of the R-phrases mentioned in this Section, see Section 16.

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For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

If inhaled

: Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact

: Remove contaminated clothing. If irritation develops, get

medical attention.

In case of contact, immediately flush skin with plenty of water.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact

: If eye irritation persists, consult a specialist.

Rinse immediately with plenty of water, also under the

eyelids, for at least 10 minutes.

If swallowed

: If unconscious place in recovery position and seek medical

advice.

Keep respiratory tract clear.

Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

: Move the victim to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

: No information available.

Risks

: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: No information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

: none

media

5.2 Special hazards arising from the substance or mixture

Specific hazards during

: Fire may cause evolution of: Carbon oxides

firefighting

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Metal oxides Sulphur oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-

contained breathing apparatus.

Exposure to decomposition products may be a hazard

to health.

Further information

: Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

: Evacuate personnel to safe areas.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Avoid breathing dust.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions

: Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: Clean up promptly by sweeping or vacuum.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage 7.1

Precautions for safe handling

Advice on safe handling

: Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Wash hands and face before breaks and immediately after

handling the product.

Do not ingest. Do not repack.

These safety instructions also apply to empty packaging which

may still contain product residues.

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Keep container closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container.

Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

To maintain product quality, do not store in heat or direct

sunlight.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis	
Graphite	7782-42-5	TWA	10 mg/m3	2011-12-01	GB EH40	
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
Graphite	7782-42-5	TWA	4 mg/m3	2011-12-01	GB EH40	
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that					

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	respiratory tra region of the li dusts contain	ct. Respirab ung. Fuller d components Where no s	le dust approximates efinitions and explan that have their own specific short-term ex	atory material are given assigned WEL, all the re	trates to the gas exchange in MDHS14/3. Where
molybdenum disulphide	1317-33-5	TWA	10 mg/m3	2005-04-06	GB EH40
Further information:	Molybdenum				
molybdenum disulphide	1317-33-5	STEL	20 mg/m3	2005-04-06	GB EH40
Further information:	Molybdenum			1	
titanium dioxide	13463- 67- 7	TWA	10 mg/m3	2011-12-01	GB EH40
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
titanium dioxide	13463- 67- 7	TWA	4 mg/m3	2011-12-01	GB EH40
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS 14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
aluminium	7429-90-5	TWA	10 mg/m3	2011-12-01	GB EH40
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature				

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	and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
aluminium	7429-90-5	TWA	4 mg/m3	2011-12-01	GB EH40	
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
Talc (Mg3H2(SiO 3)4)	14807- 96- 6	TWA	1 mg/m3	2011-12-01	GB EH40	
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust Talc is defined as the mineral talc together with other hydrous phyllosilicates including chlorite and carbonate materials which occur with it, but excluding amphibole asbestos and crystalline silica. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
2,6-di-tert- butyl-p-cresol	128-37-0	TWA	10 mg/m3	2005-04-06	GB EH40	
Further information:	2: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					

DNEL

2,6-di-tert-butyl-p-cresol

: End Use: Industrial use Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 5.8 mg/m3

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End Use: Industrial use Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 8.3 mg/kg

PNEC

2,6-di-tert-butyl-p-cresol

: Soil

Value: 1.04 mg/kg

Fresh water sediment Value: 1.29 mg/kg

Marine water Value: 0.0004 mg/l

Fresh water Value: 0.004 mg/l

Intermittent use/release Value: 0.004 mg/l

Microbiological Activity in Sewage Treatment

Systems Value: 100 mg/l

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Respiratory protection

: In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

: For prolonged or repeated contact use protective gloves.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the

standard EN 374 derived from it.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is

different from one producer to the other.

The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has

to be measured for each case.

Eye protection

: Tightly fitting safety goggles

Safety glasses with side-shields conforming to EN166

Hygiene measures

: Wash face, hands and any exposed skin thoroughly after

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handling.

Protective measures

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance

at the specific workplace.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to

the specific work-place.

Environmental exposure controls

General advice

: Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains

inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form

: paste

Colour

: grey

Odour

: characteristic

Odour Threshold

: No data available

Hq

: No data available

Melting point/range

: No data available

Boiling point/boiling range

: No data available

_

Flash point

: not applicable

Evaporation rate

: No data available

Flammability (solid, gas)

: Combustible Solids

Lower explosion limit

: No data available: No data available

Upper explosion limit Vapour pressure

: < 0.001 hPa, 20 °C

Relative vapour density

: No data available

Density

: 1.09 g/cm3, 20 °C

Water solubility

: insoluble

Solubility in other solvents

Auto-ignition temperature

: No data available

Partition coefficient: n-

1-

: No data available

octanol/water

: No data available

Ignition temperature

: No data available

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

9.2 Other information

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Sublimation point

: No data available

Bulk density

: No data available

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions

: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid

: No conditions to be specially mentioned.

10.5 Incompatible materials

Materials to avoid

: No materials to be especially mentioned.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Skin corrosion/irritation

: This information is not available.

Serious eye damage/eye

: This information is not available.

irritation

Respiratory or skin

sensitisation

: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro

: No data available

Genotoxicity in vivo

: No data available

Carcinogenicity

: No data available : No data available

Reproductive toxicity Teratogenicity

: No data available

Repeated dose toxicity

: This information is not available.

Aspiration toxicity

: This information is not available.

Further information

: Information given is based on data on the components and

the toxicology of similar products.

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Components:

zinc powder - zinc dust (pyrophoric) :

Skin corrosion/irritation

: Humans, Result: Mild skin irritation

2,6-di-tert-butyl-p-cresol:

Acute oral toxicity

: LD50: > 5,000 mg/kg, rat, OECD Test Guideline 401

Acute dermal toxicity

: LD50: > 5,000 mg/kg, rat, OECD Test Guideline 402

Skin corrosion/irritation

: rabbit, Result: No skin irritation, Classification: No skin

irritation

Serious eye damage/eye

irritation

: rabbit, Result: No eye irritation, Classification: No eye irritation

Respiratory or skin

sensitisation

: guinea pig, Result: Does not cause skin sensitisation.,

Classification: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro

: Ames test, Result: negative, In vitro tests did not show

mutagenic effects

Genotoxicity in vivo

: In vivo micronucleus test, Result: negative

Assessment

: In vivo tests did not show mutagenic effects

Reproductive toxicity

: rat, NOAEL: 100 mg/kg

Assessment: No toxicity to reproduction

STOT - single exposure

: Remarks: No data available

STOT - repeated exposure

: Remarks: No data available

Further information

: Information given is based on data on the components and

the toxicology of similar products.

Graphite:

Acute inhalation toxicity

: Dust may cause sore throat and pains in the lungs and chest.,

Respiratory disorder, Inhalation may provoke the following

symptoms:

Skin corrosion/irritation

: rabbit, Result: No skin irritation, Classification: No skin

irritation, OECD Test Guideline 404, GLP: yes

Serious eye damage/eye

irritation

: rabbit, Result: No eye irritation, Classification: No eye irritation, OECD Test Guideline 405, GLP: yes

: Contact with eyes may cause irritation.

Respiratory or skin

sensitisation

: mouse, Result: Does not cause skin sensitisation.,

Classification: Does not cause skin sensitisation., OECD Test

Guideline 429, GLP: yes

Further information

: Prolonged or repeated inhalation may cause damage to the

lungs.

titanium dioxide:

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Acute oral toxicity

: LD50: > 10,000 mg/kg, rat

Acute dermal toxicity

: LD50: > 10,000 mg/kg, rabbit

aluminium:

Acute inhalation toxicity

: LC50: 0.888 mg/l, 4 h, rat, dust/mist

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish

Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Toxicity to daphnia and other:

aquatic invertebrates

Toxicity to algae

No data available

Toxicity to bacteria

No data available No data available

Components:

2,6-di-tert-butyl-p-cresol:

Toxicity to fish

: LC50: > 0.57 mg/l, 96 h, Danio rerio (zebra fish), OECD Test

Guideline 203

Toxicity to daphnia and other: EC50: > 0.17 mg/l, 48 h, Daphnia magna (Water flea)

aquatic invertebrates

Toxicity to algae

: EC50: > 0.42 mg/l, 72 h, Desmodesmus subspicatus

(green algae)

M-Factor

Toxicity to daphnia and other: NOEC: > 0.39 mg/l, 21 d, Daphnia magna (Water flea)

aquatic invertebrates (Chronic toxicity)

Ecotoxicology Assessment

Acute aquatic toxicity

: Very toxic to aquatic life.

Chronic aquatic toxicity

: Very toxic to aquatic life with long lasting effects.

Graphite:

Toxicity to fish

: LC50: > 100 mg/l, 96 h, Danio rerio (zebra fish), OECD Test

Guideline 203, GLP: yes

aquatic invertebrates

Toxicity to daphnia and other: EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), OECD

Test Guideline 202, GLP: yes

Toxicity to algae

: EC50: > 100 mg/l, 72 h, Pseudokirchneriella subcapitata

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(green algae), OECD Test Guideline 201, GLP: yes

aluminium:

Toxicity to fish

: LC50: 0.12 mg/l, 96 h

M-Factor

Talc (Mg3H2(SiO3)4):

: 1

Toxicity to fish

: LC50: > 100 mg/l, 96 h, Danio rerio (zebra fish), semi-static

test, GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity

: This product has no known ecotoxicological effects.

Chronic aquatic toxicity

: This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Product:

Biodegradability

No data available

Physico-chemical

removability

: No data available

Components:

2,6-di-tert-butyl-p-cresol:

Biodegradability

: Primary biodegradation, 4.5 %, Result: not rapidly

biodegradable, Exposure time: 28 d, activated sludge, OECD

301 C

12.3 Bioaccumulative potential

Product:

Bioaccumulation

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent

nor very bioaccumulating (vPvB).

12.4 Mobility in soil

Product:

Mobility

: No data available

Distribution among

: No data available

environmental compartments

12.5 Results of PBT and vPvB assessment

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.

Components:

2,6-di-tert-butyl-p-cresol:

Assessment

: This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not

according to Regulation (EC) No. 1907/2006 (REACH) - GB



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considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Additional ecological information

: Harmful to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product

- : The product should not be allowed to enter drains, water
 - courses or the soil.
- : Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging

: Empty containers can be landfilled, when in accordance with

the local regulations.

14. Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR Not dangerous goods IMDG Not dangerous goods IATA

according to Regulation (EC) No. 1907/2006 (REACH) - GB



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Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

15. Regulatory information

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

REACH - Candidate List of

Substances of Very High Concern for Authorisation

(Article 59).

: This product does not contain substances of very high

concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard

Legislation

: 96/82/EC

Update:

not applicable

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11

Highly flammable.

R50

Very toxic to aquatic organisms.

R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R53

May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H228

Flammable solid.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

H412

Harmful to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006 (REACH) - GB



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Further information

All information and instructions in this safety datasheets were compiled to the best of our knowledge and are based on the information available to us. The data provided are intended to describe the product in relation to the required safety measures; they are neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and do not justify any contractual legal relationships.