

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Commercial Product Name : **RHENOCURE TP/S****1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the : Accelerator
Substance/Mixture**1.3 Details of the supplier of the safety data sheet**Rhein Chemie Rheinau GmbH
Duesseldorfer Strasse 23-27
68219 Mannheim
GermanyTelephone +49 (0)621-8907-270
Telefax +49 (0)621-8907-404
E-Mail
product.safety@rheinchemie.com**1.4 Emergency telephone number**

+49 (0) 621 8907 313

2. Hazards identification**2.1 Classification of the substance or mixture****Classification REGULATION (EC) No 1272/2008**Serious eye damage, Category 1
Chronic aquatic toxicity, Category 2H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.**Classification 67/548/EEC, 1999/45/EC**Irritant
Dangerous for the environmentR41: Risk of serious damage to eyes.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**2.2 Label elements****Labelling REGULATION (EC) No 1272/2008**

Hazard pictograms :



Signal word : Danger

Hazard statements

: H318
H411Causes serious eye damage.
Toxic to aquatic life with long lasting effects.

RHENOCURE TP/S

according to Regulation (EC) No. 1907/2006

Division Rubber

Precautionary statements	:	Prevention:	
		P273	Avoid release to the environment.
		P280	Wear protective gloves/ eye protection/ face protection.
		Response:	
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P310	Immediately call a POISON CENTER or doctor/ physician.
		P391	Collect spillage.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

3. Composition/information on ingredients**Chemical nature**

Preparation

Liquid absorbed by inert carrier material

Hazardous components

Chemical Name	EC-No. Substance No. Registration number	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration	M-Factor
dibutyl dithiophosphate zinc salt	230-257-6 01-2119971644- 29-0000	Xi R41 N R51/53	Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 60 - < 80	

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

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**

General advice	:	Take off contaminated clothing and shoes immediately.
Inhalation	:	Remove to fresh air. If symptoms persist, call a physician.
Skin contact	:	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Eye contact	:	Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	:	Clean mouth with water and drink afterwards plenty of water.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

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 : water mist, foam, dry powder, CO₂,

Unsuitable extinguishing media : High volume water jet,

5.2 Special hazards arising from the substance or mixture

Specific hazards : Heating or fire can release toxic gas.

5.3 Advice for firefighters

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

Further information : Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.
Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
Avoid dust formation.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Advice on protection : During processing, dust may form explosive mixture in air.

RHENOCURE TP/S

according to Regulation (EC) No. 1907/2006

Division Rubber

against fire and explosion

Avoid formation of dust and aerosols.
Provide sufficient air exchange and/or exhaust in work rooms.
Take measures to prevent the build up of electrostatic charge.
Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep separated from foodstuffs.

German storage class : 11
Combustible Solids

8. Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
silicon dioxide	7631-86-9	AGW	4 mg/m ³	2011-04-12	DE TRGS 900
Further information	:				

8.2 Exposure controls**Personal protective equipment**

Respiratory protection : If product forms dust wear dust-protection mask.

Hand protection : Wear suitable protective gloves (e.g. rubber gloves).
Avoid skin contact with the wetted surfaces of the protective gloves.
In the event of contamination, change protective gloves immediately.

Eye protection : Tightly fitting safety goggles

Body Protection : Long sleeved clothing

Hygiene measures : Take off all contaminated clothing immediately.
When using, do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Keep working clothes separately.

Protective measures : Avoid contact with the skin and the eyes.
Do not breathe vapours/dust.
When handling observe the usual precautionary measures for chemicals.

Environmental exposure controls

General advice : Discharge into the environment must be avoided.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form	: solid, powder,
Colour	: off-white
Odour	: characteristic
Odour Threshold	: no data available

Safety data

Flash point	: no data available
Ignition temperature	: no data available
Thermal decomposition	: Spontaneous decomposition may start at 150°C., After prolonged heating, slow decomposition may start at above 80°C.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Flammability (solid, gas)	: Sustains combustion
Oxidizing properties	: no
Auto-ignition temperature	: not auto-flammable
pH	: no data available
Melting point/range	: not applicable
Boiling point/boiling range	: not applicable
Vapour pressure	: not determined
Density	: ca.1,3 g/cm ³ (20 °C) Method: DIN 51757
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: log Pow: 2,5 (20 °C) (active ingredient)
Solubility in other solvents	: not determined

RHENOCURE TP/S

according to Regulation (EC) No. 1907/2006

Division Rubber

Viscosity, kinematic	: not applicable
Explosive properties	: Not explosive
Relative vapour density	: no data available
Evaporation rate	: no data available

10. Stability and reactivity**10.1 Reactivity**

Reactivity : No hazards to be specially mentioned.

10.2 Chemical stability

Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

Conditions to avoid : Direct sources of heat.

10.5 Incompatible materials

Materials to avoid : Acids and bases.

10.6 Hazardous decomposition products

Hazardous decomposition products : Formation of alkylmercaptans, dialkylsulphides, traces of hydrogen sulphide possible..

11. Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity : LD50: > 2.000 mg/Kg
Species: rat
Method: OECD Test Guideline 401

Acute inhalation toxicity : > 2,3 mg/l
Exposure time: 4 h
Species: rat
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2.000 mg/Kg
Species: rabbit
Method: OECD Test Guideline 402

SAFETY DATA SHEET
RHENOCURE TP/S



according to Regulation (EC) No. 1907/2006

Division Rubber

Skin irritation	: Species: rabbit No skin irritation Method: OECD Test Guideline 404
Eye irritation	: Species: rabbit Risk of serious damage to eyes.
Sensitisation	: Buehler Test Species: guinea pig Method: OECD Test Guideline 406 negative
Repeated dose toxicity	: Species: rat NOAEL: 160 mg/Kg
Genotoxicity in vitro	: Ames test with and without metabolic activation negative
Genotoxicity in vivo	: In vivo micronucleus test, mouse, Bone marrow, Oral, negative
Carcinogenicity	: no data available
Reproductive toxicity	: Animal testing did not show any effects on fertility.
Teratogenicity	: Did not show teratogenic effects in animal experiments.
STOT - single exposure	: no data available
STOT - repeated exposure	: no data available
Aspiration toxicity	: no data available

Information refers to the hazardous component.

12. Ecological information

12.1 Toxicity

Toxicity to fish	: LC50: 32 mg/l Exposure time: 96 h Species: <i>Lepomis macrochirus</i> (Bluegill sunfish)
Toxicity to daphnia and other aquatic invertebrates	: EC50: 7,3 mg/l Exposure time: 48 h Species: <i>Daphnia magna</i> (Water flea)
Toxicity to algae	: EC50: 21 mg/l Exposure time: 72 h Species: <i>Desmodesmus subspicatus</i> (green algae)

12.2 Persistence and degradability

Biodegradability	: Not readily biodegradable. 7 %
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12.3 Bioaccumulative potential

Bioaccumulation	: No bioaccumulation is to be expected (log Pow <= 4).
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12.4 Mobility in soil

Mobility	: no data available
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	: not applicable
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12.6 Other adverse effects

Additional ecological information	: Information refers to the hazardous component. Discharge into the environment must be avoided.
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13. Disposal considerations

13.1 Waste treatment methods

Product	: The relevant EC Directives as well as local, regional and national regulations have to be observed. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste Catalogue. It is recommended that details be sorted out with the waste disposer responsible.
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RHENOCURE TP/S

according to Regulation (EC) No. 1907/2006

Division Rubber

- Method of disposal : If utilisation or recycling of the product is not possible, it should be disposed of according to the local regulations and laws, e.g. by incineration in a suitable plant.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information**14.1 UN number**

- ADR/ADN : 3077
RID : 3077
IMDG : 3077
IATA-P : 3077
IATA-C : 3077

14.2 Proper shipping name

- ADR/ADN : UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, DIBUTYL DITHIOPHOSPHATE ZINC SALT)
- RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, DIBUTYL DITHIOPHOSPHATE ZINC SALT)
- IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, DIBUTYL DITHIOPHOSPHATE ZINC SALT)
- IATA-P : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, DIBUTYL DITHIOPHOSPHATE ZINC SALT)
- IATA-C : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, DIBUTYL DITHIOPHOSPHATE ZINC SALT)

14.3 Transport hazard class

- ADR/ADN : 9
RID : 9
IMDG : 9
IATA-P : 9
IATA-C : 9

14.4 Packing group

- ADR/ADN
Packaging group : III
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (E)
- RID
Packaging group : III
Hazard Identification Number : 90
Labels : 9
- IMDG
Packaging group : III
Labels : 9

RHENOCURE TP/S

according to Regulation (EC) No. 1907/2006

Division Rubber

EmS Number : F-A, S-F
IATA-P
Packaging group : III
Labels : 9
IATA-C
Packaging group : III
Labels : 9

14.5 Environmental hazards

ADR/ADN
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

IATA-P
Environmentally hazardous : yes

IATA-C
Environmentally hazardous : yes

14.6 Special precautions for user

Environmentally hazardous substance.
Marine pollutants.
Risk of serious damage to eyes.
Keep dry.
Keep separated from foodstuffs.

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

no data available

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

Water contaminating class (Germany)
WGK 2: water endangering (VWWWS A4)

15.2 Chemical Safety Assessment

Chemical Safety Assessment not yet performed.

RHENOCURE TP/S

according to Regulation (EC) No. 1907/2006

Division Rubber

16. Other information**Full text of R-phrases referred to under sections 2 and 3**

R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.