

**Naftocit DETU**

Version: 2 . 19.12.2002

Print Date 25.03.2003

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

English

**Product information**

Trade name	Naftocit DETU
Company:	Chemetall GmbH Trakehner Strasse 3 60487 Frankfurt a.M.
Lead Organisation:	Division Accelerators
Telephone:	+49(0)69 7165-0
Telefax:	+49(0)69 7165-3018
Emergency telephone number:	+49(0)5326 51-0
Contact person:	

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS-No.:	105-55-5 1,3-diethyl-2-thiourea
EINECS-No.:	203-308-5
ELINCS-No.:	

**3. HAZARDS IDENTIFICATION****Risk advice to man and the environment****Indication of danger:** Xn Harmful

R22 Harmful if swallowed.  
R37 Irritating to respiratory system.  
R40 Limited evidence of a carcinogenic effect.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitization by skin contact.

**4. FIRST AID MEASURES****General advice:**

Take off contaminated clothing and shoes immediately.

**Eye contact:**

Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

**Skin contact:**

Wash off with soap and plenty of water.

**Inhalation:**

Move to fresh air. If symptoms persist, call a physician.

**Ingestion:**

Rinse mouth. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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**5. FIRE-FIGHTING MEASURES**

**Specific hazards during fire fighting:**

May form toxic gases on heating or in case of fire. nitrogen oxides (NOx) sulphur oxides

**Special protective equipment for fire-fighters:**

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

**Suitable extinguishing media:**

carbon dioxide (CO<sub>2</sub>), dry powder, alcohol-resistant foam, water spray

**Extinguishing media which must not be used for safety reasons:**

high volume water jet

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Ensure adequate ventilation.

**Environmental precautions:**

Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:**

Take up mechanically and collect in suitable container for disposal.

**7. HANDLING AND STORAGE**

**Handling**

**Safe handling advice:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation.

**Advice on protection against fire and explosion:**

Take precautionary measures against static discharges. Take precautions against dust explosion. Keep away from sources of ignition. - No smoking.

**Storage**

**Requirements for storage areas and containers:**

Keep containers tightly closed in a cool, well-ventilated place.

**Further information:**

Keep away from heat. Protect from humidity.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protective equipment**

**Respiratory protection:**

Dust mask recommended. Half mask with a particle filter P2 (BS EN 143).

**Hand protection:**

protective gloves, rubber gloves

**Eye protection:**

tightly fitting safety goggles

**Skin and body protection:**

lightweight protective clothing

**Hygiene measures:**

Keep away from food, drink and animal feeding stuffs. Take off contaminated clothing and shoes

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immediately. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Do not breathe dust.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form: powder  
Colour: white  
Odour: odourless

**Change in physical state**

Melting point/range: 76 - 80 °C  
Density: 1.1 g/cm<sup>3</sup>  
at 20 °C  
Solubility/qualitative: completely soluble  
Aceton, Alkohol  
Water solubility: 30 g/l  
at 20 °C

**10. STABILITY AND REACTIVITY**

**Conditions to avoid**

Protect from humidity., Keep away from heat.

**Materials to avoid**

strong acids and oxidizing agents

**Hazardous decomposition products**

nitrogen oxides (NO<sub>x</sub>), sulphur oxides, carbon dioxide (CO<sub>2</sub>)

**Note:**

No decomposition if stored and applied as directed., To avoid thermal decomposition, do not overheat.

**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity:**

LD50 rat  
Dose: 316.0 mg/kg

**Skin irritation:**

Irritant effects are possible.

**Eye irritation:**

Irritating to eyes., Risk of serious damage to eyes.

**Sensitization:**

May cause sensitisation by skin contact.

**Further information:**

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Irritating to respiratory system.Harmful if swallowed.

**Further information:**

Toxic to Reproduction Category 3  
IARC 1999

**12. ECOLOGICAL INFORMATION**

**Elimination information (persistence and degradability)**

**Toxicity to daphnia:**

EC50 Daphnia  
Dose: 193 mg/l  
Testing period: 48 h

**Further information:**

water endangering

**Further information:**

Do not flush into surface water or sanitary sewer system.

**13. DISPOSAL CONSIDERATIONS**

**Waste key for the unused product:**

070108 other still bottoms and reaction residues

**Product:**

Dispose of in accordance with local regulations.

**Contaminated packaging:**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

Labelling:

Xn

Harmful

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	R37	Irritating to respiratory system.
	R40	Limited evidence of a carcinogenic effect.
	R41	Risk of serious damage to eyes.
	R43	May cause sensitization by skin contact.
S-phras(e)s:	S22	Do not breathe dust.
	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37	Wear suitable protective clothing and gloves.

**National legislation****National occupational exposure limits:**

:

10 mg/m<sup>3</sup>  
dust**Water contaminating class (Germany):**WGK 2 : water endangering  
VwVwS 17.05.99 ; Nr.: 915**16. OTHER INFORMATION**

- R22** Harmful if swallowed.
- R37** Irritating to respiratory system.
- R40** Limited evidence of a carcinogenic effect.
- R41** Risk of serious damage to eyes.
- R43** May cause sensitization by skin contact.

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.