

Safety Data Sheet according to (EC) No. 1907/2006

Day of issue: 18 July 1997

Day of revision: 10 November 2008

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

Trade names

Fast Red Tablets, cat. no. 4210

Use

For research and analysis (ELISA).

Manufacturer/Supplier

See below.

Telephone/Telefax

See below.

Emergency telephone

+45 39 27 17 71

Responsible person for the safety data sheet (e-mail):

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2. Hazards identification**Particular information pertaining specific risk for human and environment**

Tablets containing a carcinogenic substance that can cause possible risk of irreversible effects and be dangerous for the environment.

Classification: Carc Cat 2;R45 Xn;R22 Muta Cat 3;R68 R52/53**3. Composition/Information on ingredients**

% w/w	Chemical name	CAS no.	EINECS/ELINCS	Classification
1,6	Fast Red TR Salt*	3165-93-3	221-627-8	Carc Cat 2;R45 T;R23/24/25 Muta Cat 3;R68 N;R50-53(M=1) Xi;R36/37/38
0,4	Naphtol-compound	1596-56-1	216-480-1	
0,3	Levamisolhydrochloride	16595-80-5	240-654-6	T;R25
11,7	Natriumcyclamat	139-05-9	205-348-9	Xn;R22

* 4-Chloro-2-toluidine hydrochloride

Wording of R-phrases - see section 16.

4. First-aid measures**Eye contact**

Flush thoroughly with water or physiological salt water, holding eye lids open.

Remember to remove contact lenses, if any. If irritation persist: seek medical advice.

Skin contact

Remove all contaminated clothing and wash subsequently with water and soap.

Inhalation

Go to fresh air. Keep at rest. If person feels queasy/discomfort: seek medical advise.

IngestionRinse mouth and drink plenty of water. **Do not induce vomiting.** If vomiting occurs keep the head down to prevent vomit getting into the lungs. Call an ambulance.**Information**

Show this Safety Data Sheet to a physician or emergency ward.

Trade name: **Fast Red Tablets**

5. Fire-fighting measures

Flammability

Combustible.

Extinguishing media - suitable

Use water, dry chemical, foam or carbon dioxide.

Extinguishing media - NOT suitable

-

Special risks in a fire situation

At fire the product may form hazardous decomposition products such as: oxides of carbon, nitrogen and sulphur and corrosive hydrogen chloride.

Protective equipment

When extinguishing fires use breathing apparatus with an independent source of air.

Additional information

Remove containers if possible

6. Accidental release measures

Personal precautions

Provide for sufficient ventilation/respiratory protection. See protective equipment listed in section 8. Keep unauthorized persons away.

Environmental precautions

Do not empty into drains. See section 12. If the product contaminates sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Collect spilled material and place spillage in a separate container. Subsequently wash area with plenty of water. Further handling of spillage - see section 13.

7. Handling and storage

Safe handling

See section 8.

Safe storage

At 4°C (short time storage). For long time storage: at -20°C. Keep the lid of the container tightly closed during storage of the tablets.

Specific use(s):

See section 1.

8. Exposure controls and personal protection

Engineering measures (prevention of worker exposure)

Avoid all contact with skin, eyes and clothes. Avoid breathing dust. Wash with soap and water if contact with skin or clothes. Immediately change contaminated clothes. Avoid generation of dust and scattering of the product. Ensure effective ventilation. Use a fume cupboard.

Good personal hygiene is required, wash hands and contaminated areas after work. Do not eat, drink or smoke during work, and do not store food, drink or tobacco where they can be contaminated by carcinogenic substances. The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC).

Exposure limits: -

Personal protective equipment

Eye protection:

Wear close-fitting safety goggles when risk of splashes during manufacture of solution.

Skin protection:

Not required when forceps is used. Otherwise use gloves of nitrile rubber.

Breakthrough time: unknown - change gloves if exposed.

Respiratory protection:

Not required if used at proper ventilation.

Environmental exposure controls: -

Trade name: **Fast Red Tablets**

9. Physical and chemical properties

Appearance:	Red tablets
Odour:	-
pH:	-
Boiling point (°C):	-
Flash point (°C):	-
Density (g/ml):	-
Solubility in water:	Soluble

10. Stability and reactivity

Stability

Normally stable.

Conditions to avoid

Avoid heat.

Materials to avoid

-

Hazardous decomposition products

At fire the product may form hazardous decomposition products such as: oxides of carbon, nitrogen and sulphur and corrosive hydrogen chloride.

11. Toxicological information

Routes of exposure: May be absorbed by inhalation and ingestion.

Acute toxicity:

Eyes: Irritation.

Skin: May cause irritation.

Inhalation: Inhalation of tablet-dust can cause irritation with coughing and shortness of breath.

Ingestion: May cause irritation of the gastrointestinal tract.

Long term toxicity: Fast Red is considered to be carcinogenic. The compound has caused liver tumors in mice, that were fed a fast red containing feed.

12. Ecological information

Ecotoxicity:

4-Chloro-2-toluidine hydrochloride (Fast Red) is harmful to aquatic organisms. Effect values: $EC_{50} < 1$ mg/l.

Mobility:

Soluble.

Persistence and degradability:

4-Chloro-2-toluidine hydrochloride (Fast Red) is not suspected of being readily biodegradable.

Bioaccumulative potential:

Log K_{OW} of 4-Chloro-2-toluidine hydrochloride (Fast Red) is 2.27 (suspected to accumulate).

Other adverse effects:

The product dyes the surroundings. Do not empty into waters or drains.

13. Disposal considerations

Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code: 16 05 08

Trade name: **Fast Red Tablets****14. Transport information****Road/Rail (ADR/RID)**

Class : -
 UN No. : -
 Proper Shipping Name: -

15. Regulatory information**Classification according to EEC directives**

EINECS no.: -

Danger symbol and danger designation:

Toxic

Contains: 4-Chloro-2-toluidine hydrochloride

Risk-phrases: R 45: May cause cancer.
 R 22: Also harmful if swallowed.
 R 68: Also possible risk of irreversible effects.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety-phrases: S 53: Avoid exposure - obtain special instructions before use.
 S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S 61: Avoid release to the environment. Refer to special instructions/safety data sheets.

Restriction on application

Restricted use: must not be used by persons under 18 years of age.

16. Other information**R-phrases mentioned in section 3:**

R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
 R 22: Harmful if swallowed.
 R 25: Toxic if swallowed.
 R 36/37/38: Irritating to eyes, respiratory system and skin.
 R 45: May cause cancer.
 R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 68: Possible risk of irreversible effects.

Requirements concerning special training

No special training is anticipated, however, the user should be well instructed for the execution of his task, have knowledge of this Safety Data Sheet and normal training in the use of personal protective equipment.

Edition no.: 08**(Revision) Date:** 10 November 2008**Changes in section(s):**

1, 2, 3, 4, 8, 11, 13, 15 and 16

This Safety Data Sheet was created by:

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