Safety Data Sheet

According to (EC) No. 1907/2006
Day of issue: 29. April 2019
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
FAST RED Tablets, Cat. No. 4210
1.2. Relevant identified uses of the substance or mixture and uses advised against
For research and analysis. Restricted to professional users.
1.3. Details of the supplier of the safety data sheet
See below
Responsible person for the safety data sheet (e-mail): altox@altox.dk
1.4. Emergency telephone number
UK NHS: Dial 111 or 0845 4647

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Cancerogenic tablets, that are harmful for the environment. Suspected of causing genetic defects.
CLP (1272/2008): Muta. 2;H341 Carc. 1B;H350 Aquatic Chronic 3;H412
2.2. Label elements

DANGER

Contains: 4-chloro-*o*- toluidine
H341: Suspected of causing genetic defects
H350: May cause cancer
H412: Harmful to aquatic life with long lasting effects
P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P273: Avoid release to the environment
P405: Store locked up.
2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

% w/w	Substance Name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
1.6	4-chloro-*o*-Toluidine*	3165-93-3	221-627-8	612-196-00-0	-	Acute Tox. 3;H301 Acute Tox. 3;H311 Acute Tox. 3;H331 Muta. 2;H341 Carc. 1B;H350 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
0.3	Levamisole hydrochloride	16595-80-5	240-654-6	-	-	Acute Tox. 3;H301
11.7	Sodium-cyclamate	139-05-9	205-348-9	-	-	Acute Tox. 4;H302

* The substance is covered by the Danish Executive Order on Measures to Protect Workers from the Risks related to Exposure to Carcinogenic Substances and Materials at Work (1795/2015).

Wording of hazard statements - see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: Get medical attention

Skin contact: Remove contaminated clothing and wash with soap and water. If irritation persists: Seek medical advice.

Eye contact: Flush with water or physiological salt water, holding eye lids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. **Do not induce vomiting**. If vomiting occurs, keep head down to avoid vomit in the lungs. Call a physician or ambulance immediately.

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

May cause cancer. suspected of causing genetic defects.

4.3. Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray (never water jet), dry chemical, foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Do not inhale smoke fumes. In case of fire, the product may form hazardous decomposition products such as oxides of carbon, sulphur and nitrogen and corrosive hydrogen chloride.

5.3. Advice for firefighters

Use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment - see section 8. Provide adequate ventilation. Avoid further spreading. Ventilate area of leak or spill.

6.2. Environmental precautions

Avoid empty into drains. If large amounts of the mixture contaminate sewages, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Absorb spilled liquid and place spillage in a plastic container. Subsequently wash area with plenty of water. Further handling of spillage - see section 13.

6.4. Reference to other sections

See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

AVOID ANY CONTACT! Organize and perform all work to prevent any contact with the tablets. Work in fume hood. If necessary, use plastic forceps. DO NOT use metal forceps (see section 10).
Avoid all contact with skin, eyes and clothes. Avoid breathing dust. Provide adequate ventilation. Wash immediately with soap and water if skin is contaminated. Remove contaminated clothes. Required access to water and eye wash fountain.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a well-ventilated place, protected against moisture. Do not remove the included drying capsule. Store at 2-8°C (short time storage). For long time storage: at -20°C. Store securely and out of reach of unauthorized personnel and separated from food, feed, drugs etc.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits (EH40/2018): None.
DNEL/PNEC: No CSR.

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation – work in a fume hood.
Personal protective equipment:

Inhalation:	Not relevant during normal use (working in fume hood). In case of inadequate ventilation: Use an approved mask (EN149) with type P2 particle filter. The filters have a limited lifetime and must be changed. Read the instructions.
Skin:	Not required when forceps is used. Otherwise, wear protective gloves (EN374) e.g. of nitrile. It has not been possible to find data for breakthrough time. In case of spill on the glove it is recommended to change it.
Eyes:	Not relevant during normal use. Safety goggles (EN166) when there is risk of eye contact.

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Red tablets
Odour:	None
Odour threshold:	Not relevant
pH:	No available data
Melting point / freezing point (°C):	No available data
Initial boiling point and boiling range (°C):	No available data

SECTION 9: Physical and chemical properties (continued)

Decomposition temperature (°C):	No available data
Flash point (°C):	Not relevant
Evaporation rate:	Not relevant
Flammability (solid, gas):	No available data
Upper/lower flammability or explosive limits (vol.-%):	Not relevant
Vapour pressure (hPa, 20°C):	Not relevant
Vapour density (air=1):	Not relevant
Relative density (g/cm^3):	No available data
Solubility:	Soluble in water
Partition coefficient: n-octanol/water, Log K_{ow}:	No available data
Auto-ignition temperature (°C):	Not relevant
Viscosity:	Not relevant
Explosive properties:	Not relevant
Oxidising properties:	Not relevant

9.2. Other information

None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity

No available data.

10.2. Chemical stability

Stable under normal conditions - see section 7.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Avoid heating.

10.5. Incompatible materials

Avoid contact with oxidizing materials.

10.6. Hazardous decomposition products

When heated to high temperatures (decomposition), the product emits very toxic fumes such as oxides of carbon and nitrogen and corrosive hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	No available/applicable data	-	-
Dermal	No available/applicable data	-	-
Oral	LD_{50} (rat) = 1280 mg/kg (Sodium cyclamate) LD_{50} (rat) = 180 mg/kg (Levamisole hydrochloride)	No info Literature	Supplier RTECS/Supplier
Corrosion/irritation:	No available/applicable data	-	-
Sensitization:	No available/applicable data	-	-
CMR:	Carcinogen, bladder, IARC Group 2A (4-chloro-o-toluidine hydrochloride) Possible mutagen (4-chloro-o-toluidine hydrochloride)	No info No info	IARC volume 77 ECHA

Information on likely routes of exposure: Skin, lungs and ingestion.

Symptoms:

Inhalation: Inhalation of tablet-dust may give irritation with coughing and shortness of breath and symptoms as mentioned under “Ingestion".

11.1. Information on toxicological effects (continued)

Skin:	May cause irritation.
Eye:	May cause irritation.
Ingestion:	Irritation of the gastrointestinal tract and in large doses: Diarrhoea, vomiting, stomach ache and convulsions.
Chronic effects:	Causes bladder and liver cancer in rats. Suspected of causing genetic defects.

SECTION 12: Ecological information

12.1. Toxicity
No available/applicable toxicological data.
12.2. Persistence and degradability
The tablets are not readily biodegradable ((EPI-suite).
12.3. Bioaccumulative potential
Tablets: 1> log K_{ow} <3 – Moderate bioaccumulative.
12.4. Mobility in soil
No available/applicable data**.**
12.5. Results of PBT and vPvB assessment
No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.
12.6. Other adverse effects
None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods
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 (mixture itself)
15 02 02 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

Not dangerous goods according to ADR/RID/IMDG/IATA
14.1. UN number None
14.2. UN proper shipping name None
14.3. Transport hazard class(es) None
14.4. Packing group None
14.5. Environmental hazards None
14.6. Special precautions for user None
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
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).
Restricted use: Must not be used by persons under 18 years of age.
15.2. Chemical safety assessment
No CSR

SECTION 16: Other information

Hazard statements mentioned in section 3:
H302: Harmful if swallowed.
H341: Suspected of causing genetic defects.
H350: May cause cancer.
H360: May damage fertility or the unborn child.
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
Abbreviations:
CMR = Carcinogenicity, mutagenicity and reproductive toxicity.
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
EC50 = Effect Concentration 50 %
FW = Fresh Water
LC_{50} = Lethal Concentration 50 %
LD_{50} = Lethal Dose 50 %
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
SW = Salt water
vPvB = very Persistent, very Bioaccumulative
Literature:
ECHA = = European Chemicals Agency
IUCLID = International Uniform ChemicaL Information Database.
IARC = International Agency for Research on Cancer (monograph, resume)
Training advice:
No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

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