

## SAFETY DATA SHEET

Revision Date 25-May-2017

Revision Number 2

### 1. Identification

**Product Name** Fast Red TR Salt

**Cat No. :** AC191600100; AC191600250; AC191601000

**Synonyms** 4-Chloro-6-Methylaniline Hydrochloride; 4-Chloro-2-Toluidine Hydrochloride.

**Recommended Use** Laboratory chemicals.

**Uses advised against** Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

##### Company

|                     |                     |
|---------------------|---------------------|
| Fisher Scientific   | Acros Organics      |
| One Reagent Lane    | One Reagent Lane    |
| Fair Lawn, NJ 07410 | Fair Lawn, NJ 07410 |
| Tel: (201) 796-7100 |                     |

##### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99

**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|   |             |
|---|-------------|
| Acute oral toxicity                         | Category 3  |
| Acute dermal toxicity                       | Category 3  |
| Acute Inhalation Toxicity - Dusts and Mists | Category 3  |
| Germ Cell Mutagenicity                      | Category 2  |
| Carcinogenicity                             | Category 1B |

#### Label Elements

##### **Signal Word**

Danger

##### **Hazard Statements**

Toxic if swallowed

Toxic in contact with skin

Toxic if inhaled

Suspected of causing genetic defects

May cause cancer

**Precautionary Statements****Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area

**Response**

IF exposed or concerned: Get medical attention/advice

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 Remove/Take off immediately all contaminated clothing  
 Wash contaminated clothing before reuse

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth

**Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Very toxic to aquatic life with long lasting effects  
 WARNING! This product contains a chemical known in the State of California to cause cancer.

### 3. Composition / information on ingredients

| Component                                      | CAS-No    | Weight % |
|--|-----------|----------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride | 3165-93-3 | 100      |

### 4. First-aid measures

|  |  |
|--|--|
| <b>Eye Contact</b>                     | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| <b>Skin Contact</b>                    | Wash off immediately with plenty of water for at least 15 minutes.                       |
| <b>Inhalation</b>                      | Move to fresh air.   |
| <b>Ingestion</b>                       | Do not induce vomiting.  |
| <b>Most important symptoms/effects</b> | No information available.  |
| <b>Notes to Physician</b>              | Treat symptomatically  |

## 5. Fire-fighting measures

**Unsuitable Extinguishing Media** No information available

**Flash Point Method -** No information available

**Autoignition Temperature** No information available

**Explosion Limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

None known

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3      | 0            | 0           | N/A              |

## 6. Accidental release measures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions** See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

**Methods for Containment and Clean Up** No information available.

## 7. Handling and storage

**Handling** Ensure adequate ventilation.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

|   |                          |
|---|--------------------------|
| <b>Physical State</b>                         | Solid                    |
| <b>Appearance</b>                             | Orange                   |
| <b>Odor</b>                                   | Odorless                 |
| <b>Odor Threshold</b>                         | No information available |
| <b>pH</b>                                     |                          |
| <b>Melting Point/Range</b>                    | No data available        |
| <b>Boiling Point/Range</b>                    |                          |
| <b>Flash Point</b>                            |                          |
| <b>Evaporation Rate</b>                       | No information available |
| <b>Flammability (solid,gas)</b>               | No information available |
| <b>Flammability or explosive limits</b>       |                          |
| <b>Upper</b>                                  | No data available        |
| <b>Lower</b>                                  | No data available        |
| <b>Vapor Pressure</b>                         | No information available |
| <b>Vapor Density</b>                          | No information available |
| <b>Specific Gravity</b>                       | No information available |
| <b>Solubility</b>                             | No information available |
| <b>Partition coefficient; n-octanol/water</b> | No data available        |
| <b>Autoignition Temperature</b>               | No information available |
| <b>Decomposition Temperature</b>              | No information available |
| <b>Viscosity</b>                              | No information available |
| <b>Molecular Formula</b>                      | C17H13ClN2O6S2           |
| <b>Molecular Weight</b>                       | 178.07                   |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactive Hazard</b>                  | None known, based on information available |
| <b>Stability</b>                        | Stable under normal conditions.            |
| <b>Conditions to Avoid</b>              | Incompatible products.                     |
| <b>Incompatible Materials</b>           | Strong oxidizing agents                    |
| <b>Hazardous Decomposition Products</b> | None under normal use conditions           |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.   |
| <b>Hazardous Reactions</b>              | None under normal processing.              |

## 11. Toxicological information

**Acute Toxicity****Component Information**

| Component                                      | LD50 Oral                | LD50 Dermal | LC50 Inhalation |
|--|--------------------------|-------------|-----------------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride | LD50 = 860 mg/kg ( Rat ) | Not listed  | Not listed      |

**Toxicologically Synergistic Products** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component                                      | CAS-No    | IARC     | NTP                    | ACGIH      | OSHA | Mexico     |
|--|-----------|----------|------------------------|------------|------|------------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride | 3165-93-3 | Group 2A | Reasonably Anticipated | Not listed | X    | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** None known

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity**

Do not empty into drains.

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component  | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--|------------------------|------------------------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride - 3165-93-3 | U049                   | -                      |

## 14. Transport information

**DOT**

**UN-No** UN1579  
**Proper Shipping Name** 4-CHLORO-O-TOLUIDINE HYDROCHLORIDE, SOLID  
**Hazard Class** 6.1  
**Packing Group** III

**TDG**

**UN-No** UN1579  
**Proper Shipping Name** 4-CHLORO-O-TOLUIDINE HYDROCHLORIDE, SOLID  
**Hazard Class** 6.1  
**Packing Group** III

**IATA**

**UN-No** UN1579

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | 4-CHLORO-O-TOLUIDINE HYDROCHLORIDE, SOLID |
| <b>Hazard Class</b>         | 6.1                                       |
| <b>Packing Group</b>        | III                                       |
| <b>IMDG/IMO</b>             |   |
| <b>UN-No</b>                | UN1579                                    |
| <b>Proper Shipping Name</b> | 4-CHLORO-O-TOLUIDINE HYDROCHLORIDE, SOLID |
| <b>Hazard Class</b>         | 6.1                                       |
| <b>Packing Group</b>        | III                                       |

## 15. Regulatory information

### International Inventories

| Component                                      | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|--|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride | X    | -   | X    | 221-627-8 | -      |     | X     | -    | X    | -     | -    |

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

**TSCA 12(b)** Not applicable

| Component                                      | TSCA 12(b) |
|--|------------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride | Section 5  |

**SARA 313** Not applicable

#### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA Occupational Safety and Health Administration**  
Not applicable

**CERCLA**  
Not applicable

| Component                                      | Hazardous Substances RQs | CERCLA EHS RQs |
|--|--------------------------|----------------|
| Benzenamine, 4-chloro-2-methyl-, hydrochloride | 100 lb                   | -              |

**California Proposition 65** This product does not contain any Proposition 65 chemicals

| Component  | CAS-No    | California Prop. 65 | Prop 65 NSRL | Category   |
|--|-----------|---------------------|--------------|------------|
| Benzenamine,<br>4-chloro-2-methyl-,<br>hydrochloride | 3165-93-3 | Carcinogen          | 3.3 µg/day   | Carcinogen |

#### U.S. State Right-to-Know Regulations

| Component  | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--|---------------|------------|--------------|----------|--------------|
| Benzenamine,<br>4-chloro-2-methyl-,<br>hydrochloride | X             | X          | X            | X        | -            |

#### U.S. Department of Transportation

Reportable Quantity (RQ): N  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

**Mexico - Grade** No information available

## 16. Other information

**Prepared By** Regulatory Affairs  
 Thermo Fisher Scientific  
 Email: EMSDS.RA@thermofisher.com

**Revision Date** 25-May-2017  
**Print Date** 25-May-2017  
**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

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

**End of SDS**