

Material Safety Data sheet

Section 1: Product and Company Information

| | | | |
|-------------------------|--|------------------------|------------------|
| Product Name | TTC Supplement | | |
| Catalogue Number | iS47082 | Technical Phone | 0098 21 66787291 |
| E-mail | ibresco@gmail.com | Fax No | 09391003565 |
| Company Address | Zist Kavosh Iranian, No.432, East Kokab Av,45 Metri Golshahr, Karaj, Iran. | | |

Section 2: Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS

none

Section 3: Composition / Information on Ingredients

Mixture

Synonyms 2,3,5-Triphenyl-tetrazolium chloride solution

| Component | Classification | Concentration* |
|--|---|------------------|
| water | | |
| CAS-No. | 7732-18-5 | >= 90 - <= 100 % |
| EC-No. | 231-791-2 | |
| 2,3,5-triphenyltetrazolium chloride | | |
| CAS-No. | 298-96-4 | >= 1 - < 5 % |
| EC-No. | 206-071-6 | |
| | Flam. Sol. 1; Skin Irrit. 2; Eye Irrit. 2A; H228, H315, H319 | |

* Weight %

Section 4: First Aid Measures

Description of first-aid measures

| | |
|--------------------------------|--|
| General advice | Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area. |
| If inhaled | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash off with soap and plenty of water. Consult a physician. |
| In case of eye contact | Flush eyes with water as a precaution. |
| If swallowed | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire Fighting Measures

Extinguishing media**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NO_x)

Hydrogen chloride gas

Carbon oxides

Nitrogen oxides (NO_x)

Hydrogen chloride gas

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed in a dry and well-ventilated place.

Storage stability Recommended storage temperature 2 - 8 °C

Storage class Storage class (TRGS 510): 12: Non-Combustible Liquids

Section 8: Exposure Controls / Personal Protection

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

| | |
|--|-------------------|
| Physical state | Clear, liquid |
| Color | Light yellow |
| Odor | No data available |
| Odor Threshold | No data available |
| Melting point/freezing point | No data available |
| Initial boiling point and boiling range | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Flash point | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |

| | |
|--|-------------------|
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| pH | No data available |
| Viscosity | No data available |
| Water solubility | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Density | No data available |
| Relative density | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Other safety information | No data available |

Section 10: Stability and Reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects

Mixture

Oral: No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

| | |
|---|---|
| Aspiration hazard | No data available |
| Additional Information | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Components | |
| water | |
| | LD50 Oral - Rat - > 90,000 mg/kg |
| Acute toxicity | Remarks: (RTECS) Inhalation: No data available Dermal: No data available |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| 2,3,5-triphenyltetrazolium chloride | |
| | Oral: No data available Inhalation: No data available Dermal: No data available |
| Acute toxicity | Inhalation: No data available Dermal: No data available |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |

Section 12: Ecological Information

| | |
|--------------------------------------|-------------------|
| Toxicity | |
| Mixture | No data available |
| Persistence and degradability | No data available |
| Bio accumulative potential | No data available |
| Mobility in soil | No data available |

| | |
|--|---|
| Results of PBT and vPvB assessment | PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted. |
| Endocrine disrupting properties | No data available |
| Other adverse effects | No data available |
| Components | |
| water | No data available |
| 2,3,5-triphenyltetrazolium chloride | No data available |

Section 13: Disposal Consideration

Waste treatment methods

Product

Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

| | |
|----------------------------|--|
| TDG | Not regulated as a dangerous good |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |
| Further information | Not classified as dangerous in the meaning of transport regulations. |

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Section 16: Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. *ibresco* shall not be held liable for any damage resulting from handling or from contact with the above product.

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