

## TRICINE

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** TRICINE

**Product Code:** 966

**CAS#:** 5704-04-1

**Chemical Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub>

**Molecular Formula:** 179.17 g/mol

**Formula Weight:** NA

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Substances Synonyms:** N-[ Tris (hydroxymethyl )methyl ]glycine

**Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub>

**Molecular Weight:** 179.17 g/mol

**CAS-No.:** 5704-04-1

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

according to Regulation (EC) No 1272/2008, Not a hazardous substance or mixture

**Other hazards** This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

**Ecological information:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Toxicological information:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact:** rinse out with plenty of water. Remove contact lenses.

**Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**Serious Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**If swallowed:** immediately make victim drink water (two glasses at most). Rinse mouth with water. Consult a physician.

**Serious Ingestion:** Not available

**Most important symptoms and effects, both acute and delay** No data available

**Indication of any immediate medical attention and special treatment needed** no data available

### SECTION 5: FIRE AND EXPLOSION DATA

**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<sub>x</sub>), Combustible. Development of hazardous combustion gases or vapours possible in the event of fire



**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information** Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Specific end use(s)** A part from the uses no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure controls

#### Personal protective equipment

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

**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** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Form	: White crystalline powder.
Odour		: Not available
Taste		: Not available
Molecular Weight		: Not available
Colour		: Not available
pH		: Not available
Boiling Point		: Not available
Melting Point		: Not available
Critical Temperature		: Not available
Specific Density		: Not Available
Vapor Pressure		: Not Available
Vapor Density		: Not available
Volatility		: Not Available
Odor Threshold		: Not Available



Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Not available

## SECTION 10: STABILITY AND REACTIVITY DATA

**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** **Other decomposition products** - no data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 423)

Inhalation: No data available

Dermal: No data available

#### Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 15 min (OECD Test Guideline 439)

#### Serious eye damage/eye irritation Eyes - In vitro study

Result: No eye irritation - 6 h (OECD Test Guideline 492)

#### Respiratory or skin sensitization

In vitro study

Result: negative (OECD Test Guideline 442C)

#### Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

**Carcinogenicity** no data available

**Reproductive toxicity** Suspected of damaging the unborn child. Suspected of damaging fertility.

**Specific target organ toxicity** - no data available

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** 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** this substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher

**Other adverse effects** no data available.

## SECTION 13: DISPOSAL CONSIDERATIONS



**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### SECTION 14: TRANSPORT INFORMATION

**UN number:**

**ADR/RID:**

**IMDG:**

**IATA:**

**UN proper shipping name**

**ADR/RID:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

**Transport hazard class(es):**

**ADR/RID:**

**IMDG:**

**IATA:**

**Packaging group:**

**ADR/RID:**

**IMDG:**

**IATA:**

**Environmental hazards:**

**ADR/RID:** no

**IMDG Marine pollutant:** no

**IATA:** no

#### SECTION 15: OTHER REGULATORY INFORMATION

**Regulatory information** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment:** For this product a chemical safety assessment was not carried out

#### SECTION 16: OTHER INFORMATION

**References: Full text of H AND R-Statements**

Not Available

**Other Special Considerations:** Not available.

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user 's obligation to investigate and determine the suitability of the information for their particular purpose.