



MATERIAL SAFETY DATA SHEET

Substance Name: **TOLYLTRIAZOLE**

Complying with according to Regulation (EC) No. 1907/2006 and REGULATION (EC) No 1272/2008 (CLP)

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Substance Name: TOLYLTRIAZOLE

Trade name: 1-H TOLYLTRIAZOLE OR METHYL-BENZOTRIAZOLE

Synonyms: BENZENE RING FUSED AZOLE

Chemical formula: C₇H₇N₃

Product type: Heterocyclic Compound with Nitrogen Atoms.

CAS number: 29385-43-1

H.S.Code : 29339900

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification

Supplier/Manufacturer: SHIVAM ENTERPRISES.

S-77/2, MIDC, BHOSARI, PUNE-411026

Tel: +91-20-27120630

Fax: +91-20-27122058

E-mail: info@shivamchemicals.com

E-mail address of person responsible for this SDS: factory@shivamchemicals.com

1.4 Emergency telephone number

Emergency telephone number (including hours of operation): +91-9822612471

Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Eye irritation (Category 2), H319

Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.





2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Hazard pictograms (CLP)

Signal word (CLP)

: Warning

Hazard statement(s)

H302 + H332

: Harmful if swallowed or if inhaled

H319

: Causes serious eye irritation.

H412

: Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273

: Avoid release to the environment.

P305 + P351 + P338

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard

Statements

: none

2.3 Other hazards

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

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Synonyms

: Tolyltriazole OR Methyl-Benzotriazole

Formula

: C7H7N3

Molecular weight

: 133.12 g/mol

CAS-No.

: 29385-43-1

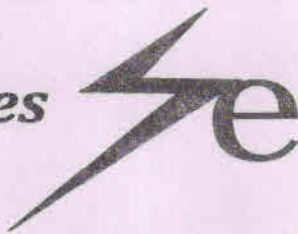
EC-No.

: 249-596-6



Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Tolyltriazole e		
CAS-No. 29385-43-1 EC-No. 249-596-6	Acute Tox. 4; Eye Irrit. 2; Aquatic Chronic 2; H302, H319, H411	<= 100 %



For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

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

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.





Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. \20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. \20 Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition

- No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

8.2 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.

Shivam Enterprises

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MANUFACTURERS OF FINE CHEMICALS & INTERMEDIATES**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

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,
test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Flame retardant antistatic protective 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 (EN 143) respirator cartridges as a backup to engineering controls. If th 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.





MANUFACTURERS OF FINE CHEMICALS & INTERMEDIATES

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|---|---------------------------------------|
| a) Appearance Form | : Off- White to Brown to yellow solid |
| b) Odour | : No data available |
| c) Odour Threshold | : No data available |
| d) pH | : 5.0 - 7.0 at 100 g/l at 20 °C |
| e) Melting point/freezing point... | |
| Melting point/range | : 76 - 92 °C - lit |
| f) Initial boiling point and boiling range | : 160 °C at 2 mm Hg |
| g) Flash point | : 182 °C - closed cup |
| h) Evaporation rate | : No data available |
| i) Flammability (solid, gas) | : No data available. |
| j) Upper/lower flammability or explosive limits | : No data available |
| k) Vapour pressure | : No data available |
| l) Vapour density | : No data available |
| m) Relative density | : No data available |
| n) Water solubility | : No data available |
| o) Partition coefficient: octanol/water | : No data available |
| p) Auto-ignition temperature | : No data available |
| q) Decomposition temperature | : No data available |
| r) Viscosity | : No data available |
| s) Explosive properties | : No data available |
| t) Oxidizing properties | : No data available |

9.2 Other safety information

No data available





Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Exposure to light may affect product quality.

10.5 Incompatible materials

Strong oxidizing agents, Heavy metals

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products - No data available

In the event of fire: see section 5

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 500 mg/kg(Tolyltriazole)

(OECD Test Guideline 423)

LD50 Dermal - Rat - > 1,000 mg/kg(Tolyltriazole)

Skin corrosion/irritation

Skin - Rabbit(Tolyltriazole)

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit(Tolyltriazole)

Result: Irritating to eyes. - 24 h

(OECD Test Guideline 405)

Respiratory or skin sensitisation

Maximisation Test - Guinea pig(Tolyltriazole)

Result: Does not cause skin sensitisation.

(OECD Test Guideline 406)

Germ cell mutagenicity

Ames test(Tolyltriazole)

Salmonella typhimurium





Result: negative

OECD Test Guideline 474(Tolyltriazole)

Mouse - male and female

Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification.(Tolyltriazole)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Tolyltriazole)

Specific target organ toxicity - single exposure

No data available(Tolyltriazole)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Tolyltriazole)

Additional Information

RTECS: DM1225000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Tolyltriazole)

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

semi-static test LC50 - Danio rerio (zebra fish) - 180 mg/l - 96 h(Tolyltriazole)
(OECD Test Guideline 203)

Toxicity to daphnia and
other aquatic
invertebrates

Immobilization EC50 - Daphnia galeata (water flea) - 8.58 mg/l - 48
h(Tolyltriazole)
OECD Test Guideline 202)

Toxicity to algae

Growth inhibition EC50 - Selenastrum capricornutum (green algae) - 75 mg/l -
72 h(Tolyltriazole)
(OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability

aerobic - Exposure time 28 d(Tolyltriazole)

Result

: 0 % - Not readily biodegradable.
(OECD Test Guideline 301D)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Tolyltriazole)





MANUFACTURERS OF FINE CHEMICALS & INTERMEDIATES

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID:

IMDG:

IATA:

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID:

IMDG:

IATA:

14.4 Packaging group

ADR/RID:

IMDG: -

IATA:

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available



Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Shivam Enterprises

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E-MAIL : accounts@shivamchemicals.cominfo@shivamchemicals.comfactory@shivamchemicals.comWEB : www.shivamchemicals.com**MANUFACTURERS OF FINE CHEMICALS & INTERMEDIATES****Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.

H302 + H332 Harmful if swallowed or if inhaled

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Version no. 2

Date of issue: 10/08/2021

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

