



Material Safety Data Sheet

Sodium Tolytriazole 50% salt

1. Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name: Sodium Tolytriazole 50% salt

Chemical name: Sodium Tolytriazole

Synonym: 1,2,3-Benzotriazole, 1H-benzotriazole

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

Identified uses: Sodium Tolytriazole can be used as corrosion inhibitors and De-icing products

Uses advised against: No information available.

1.3 Details of the supplier of the SDS

Manufacturer: Nanjing Xiangshengtai Industry Co., Ltd.

Address: Room 206, Building 2, Xincheng Fazhan Center, East Tianyuan Road, Nanjing, China

Postal code: 211100

Telephone: +86-025-84801979

Fax: +86-025-84801979

1.4 Emergency telephone number

+ 32 70 245 245 (24 Hours available)

2. Hazards identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 3)

Eye irritation (Category 1)

Chronic aquatic toxicity (Category 4)

Classification according to Directive 67/548/EEC[DSD] or Directive 1999/45/EC[DPD]

Harmful if swallowed. Cause serious eye damage. Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment.

Additional information

Full text of R-phrases(s)/H-statement(s): See Section 16.

2.2 Label elements

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

Hazard pictogram(s):





Signal word:Corrosive

Hazard statement(s):H290: May be corrosive to metals.

Precautionary statement(s):

P234 Keep only in original container.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.

Supplemental Hazard information (EUH):

No information available.

Special rules for supplemental label elements for certain mixtures:

No information available.

2.3 Other hazards

No information available.

3.Composition/information on ingredients

3.1 Substance/Preparation information

Substance Name(s)	Tolytriazole Sodium Salt	Free Sodium Hydroxide	Water
Index No.	Not listed	Not listed	Not listed
CAS No.	64665-57-2	1310-73-2	7732-18-5
EC No.	265-004-9	215-185-5	231-791-2
Purity	> 49.5-51.0%	49-50.5%	<0.5%
Formula	C7H6N3Na	NaOH	H2O
Molecular Weight	155.13	40.0	18.0

4.First Aid Measures

4.1 Description of first aid measures

General notes:

Do not induce vomiting.Give large amounts of water,vinegar 1:4 or lemon juice. Follow with milk.Never give anything by mouth to unconscious person. Seek medical attention.

Following inhalation:

Move immediately to fresh air, avoid exertion and seek medical attention. If breathing is difficult, give oxygen.

Following skin contact:

Wash with soap and plenty of water. If skin irritation occurs: Get medical attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Following ingestion:

Rinse mouth.Call a POISON Center or doctor if you feel unwell.Do NOT induce vomiting.If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.

4.2 Most important symptoms and effects, both acute and delayed

May cause damage to organs through prolonged or repeated exposure.



4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed

No information available.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder, carbon dioxide, water or chemical foams.

Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x).

5.3 Advice for fire-fighters

Fire-fighters should wear appropriate breathing apparatus and protective equipment. Fire-fighting in the wind. Ensure adequate ventilation. Move container from fire area if it can be done without risk. Cool containers with water spray. Prevent fire-fighting water from entering surface water or groundwater. Evacuate all non-essential personnel.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to SECTION 8 for personal protective equipment. Ensure adequate ventilation. Remove all ignition sources. Avoid contact with eyes and skin. Avoid generation of dust.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Discharge into the environment must be avoided. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

Sweep up, place in a container and hold for waste disposal. Wash contaminated area with plenty of water. Avoid creation of dust.

6.4 Reference to other Section

See SECTION 7 for information on safe handling.

See SECTION 8 for information on personal protection equipment.

See SECTION 13 for information on disposal.

7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use this material with adequate ventilation. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Keep away from heat, sparks, open flame, and hot surfaces-No smoking. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid breathing dust.



7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool dry and well-ventilated place. Keep away from heat and ignition sources. Keep away from incompatible materials.

7.3 Specific end use(s)

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

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values: Not established.

DNEL (Derived No Effect Level) for workers and the general population:

Not available.

PNEC (Predicted No Effect Concentration) values:

Not available.

8.2 Exposure controls

Appropriate engineering controls:

Provide local exhaust or process enclosure ventilation system. Prepare safety shower and eye wash equipments.

Personal protective equipment:

Eye and 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.

Hand protection: Wear nitrile rubber gloves to prevent hand exposure.

Skin protection: Wear suitable protective clothing.

Respiratory protection: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Environmental exposure controls:

Avoid entering into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear yellow to amber solution

Odour: Mild odour (10% solution at 25

PH: 11.5-12.0

Melting point: 8

Boiling point: 100(1013hPa).

Flash point: 170-closed up.

Evaporation rate: Not applicable.

Flammability (solid, gas): combustible

Upper/lower flammability or explosive limits: Not available.

Vapour pressure(mmHg): 0.04

Density: 1.19 g/cm³

Solubility(ies): Not available

Partition coefficient: n-octanol/water: Not available.

Auto-ignition temperature: Not available.



Decomposition temperature:Not available.

Viscosity:Not available.

Explosive properties:Not available.

Oxidising properties:Not available.

9.2 Other information

No data available.

10.Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Strong heating, incompatible materials.

10.5 Incompatible materials

Strong oxidizing materials, Heavy metals.

10.6 Hazardous decomposition products

Other decomposition products-no data available.

11.Toxicological information

11.1 Information on toxicological effects

Acute toxicity:Oral:LD50=1980 mg/kg (Rat).

Dermal:LD50=2000mg/l (Rabbit).

Skin corrosion/irritation:Rabbit test:Corrosive.

Serious eye damage/irritation:Cause eye irritation.

Respiratory or skin sensitization:Not available.

Germ cell mutagenicity:Not available.

Carcinogenicity:Not available.

Reproductive toxicity:No information available.

STOT-single exposure:No information available.

STOT-repeated exposure:No information available.

Aspiration hazard:No information available.

12.Ecological information

12.1 Toxicity

Acute fish toxicity: LC50 (96h):122mg/l(Zebra fish (Brachydanio rerio))

LC50 (96h):>173mg/l (Bluegill (Lepomis macrochirus))

LC50 (96h):>25mg/l (Rainbow trout (Salmo gairdneri))

Acute daphnia toxicity:EC50 (48h):280mg/l.(Daphnia magna)



Acute algae toxicity:EC50 (96h):26.2mg/l.(Senastrum capricornutum)12.2 Persistence and degradability

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Dispose in accordance with all applicable federal, state/regional and local laws and regulations. Recommended wash container recycling.

14. Transport information

14.1 UN Number

3267

14.2 UN proper shipping name

Corrosive liquid, basic, organic. N.O.S

14.3 Transport hazard class(es)

8

14.4 Packing group

III/II

14.5 Environmental hazards

Not available.

14.6 Special precautions for user

Corrosive; Irritant.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

15. Regulatory information

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

EU regulation:

Authorisations:No information available.

Restrictions on use:No information available.

EINECS:CAS#64665-57-2 is listed in.

DSD (67/548/EEC):CAS#64665-57-2 is not listed in.



15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this product.

16. Other information

16.1 Revision Information

Date of the previous revision: 1/5/2011.

Date of this revision: 20/11/2012

Revision summary: The second version SDS

16.2 Abbreviations and acronyms

CLP: EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

EINECS: European Inventory of Existing Commercial Chemical Substances.

DSD: Dangerous Substance Directive (67/548/EEC).

16.3 Key literature references and sources for data

Provided by company.

16.4 Relevant R-phrases/H-statements

H290: May be corrosive to metals.

16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 Declare to reader

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.