

Taian Green Industry Co., Ltd.

Tel: 86-156-6659-0861

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Safety Data Sheet

Tetraethyl Ammonium Tetrafluoroborate ,98%

(According to Regulation (EC) No. 1907/2006)

Version: 1.0-English

Preparation date: 2018-10-15

Revision date: 2018-10-15

Section 1 - Chemical Product and Company Identification

1.1 Product identifier:

Product name: Tetraethyl Ammonium Tetrafluoroborate,98%

Trade name: TEATFB

CAS No. : 429-06-1

1.2 Uses of the chemical product:

Intended use: Laboratory chemicals, Manufacture of substances.

Limited use: No information available.

1.3 Supplier identifier:

Company name: Taian Green Industry Co.,Ltd

Address: Room921, Building2, Dream Valley E-commerce Industrial Park,
Lingshan Street, Taishan District, Taian City, Shandong Province,
China

Postcode: 271000

E-mail: greenindustry@163.com

Telephone: +86 156 6659 0861

1.4 Emergency telephone:

Emergency Phone #: +86 156 6659 0861

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, Dermal: Category 4 H312

Skin corrosion/irritation: Category 2 H315

Serious eye damage/eye irritation: Category 2 H319

Acute toxicity, Inhalation: Category 4 H332

Specific target organ toxicity, single exposure; Respiratory tract irritation: Category 3 H335

Hazardous to the aquatic environment, long-term hazard: Category 1 H410

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram:



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Signal word: Warning

Hazard statement(s)

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Supplemental Hazard Statements

P264 Avoid breathing dust/fume/gas/mist/vapours/spray.

P270 Wash skin thoroughly after handling.

P271 Do not eat, drink or smoke when using this product.

P280 Use only outdoors or in a well-ventilated area.

P301 + P312 + P330 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.

P304 + P340 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTRE/doctor/ if you feel unwell.

P305 + P351 + P338 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor/ if you feel unwell.

P332 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 If eye irritation persists: Get medical advice/attention.

P403 + P233 Take off contaminated clothing and wash it before reuse.

P405 Store in a well-ventilated place. Keep container tightly closed. Store locked up.

P501 The contents/containers are disposed of at an approved waste treatment plant.

Supplemental Hazard Statements

2.3 Other hazards

None

Section 3 - Composition/information on ingredients

3.1 Substances

Formula:

Molecular weight:

C₈H₂₀NBF₄

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217.06 g/mol

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

Component	Classification	Concentration
Tetraethyl ammonium tetrafluoroborate		
CAS No. 429-06-1 EC No. 207-055-1	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Chronic 1; H302, H312, H315, H319, H332, H335, H410	≤100%

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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 - Firefighting 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, hydrogen fluoride, borane/boron oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

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Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 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 for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and storage

7.1 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. Normal measures for preventive fire protection. 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 controls/personal protection

8.1 Control parameters

No data available

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.

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.

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

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.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 - Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State: Ceraceous solid

Appearance: White to Off-white

Odor: No data available

pH: No data available

Melting point/freezing point: mp >300°C

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Water solubility: No data available

Partition coefficient: octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other safety information

No data available

Section 10 - Stability and reactivity

10.1 Reactivity

No data available

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10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

Section 11 - Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

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

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

RTECS: Not available

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

Section 12 - Ecological information

12.1 Toxicity

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No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

Section 13 - Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product

Section 14 - Transport information

14.1 UN number

ADR/RID: 2811

IMDG: 2811

IATA: 2811

14.2 UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Tetraethyl ammonium tetrafluoroborate)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Tetraethyl ammonium tetrafluoroborate)

IATA: TOXIC SOLID, ORGANIC, N.O.S. (Tetraethyl ammonium tetrafluoroborate)

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: NO

IMDG: NO

IATA: NO

Marine pollutant: NO

14.6 Special precautions for user

No data available

Section 15 - Regulatory information

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

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 - Further information

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