

# Safety Data Sheet (SDS)

Product name: GT-NSP-TAPN Indoor expansion type steel structure fire retardant coating

The content and format of this SDS is accordant with GB/T 16483-2008 and GB/T 17519-2013

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## 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** GT-NSP-TAPN Indoor expansion type steel structure fire retardant coating

**Product code:** GT-NSP-TAPN

**Manufacturer/Supplier:** BEIJING TIAN'AN PUNING FIRE-FIGHTING MATERIALS FACTORY

**Address:** No.3, Sheng Chun East Lane, Xi Hong Men Town, Da Xing District, Beijing, China

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**Further information obtainable from:** BEIJING TIAN'AN PUNING FIRE-FIGHTING MATERIALS FACTORY

**Information in case of emergency:** Emergency phone number in China (24h): +86-10-60201377

**Recommended use of the chemical and restrictions on use:** Fire-retardant material. Restrictions on use: Do NOT use it in an application which may contaminate food or do harm to human health.

## 2. Hazards identification

**Emergency overview:**

White liquid with slightly sour odor. The product is not flammable, and has no special danger. Causes serious eye irritation.

**GHS hazard classification per GB 30000. 2-2013 ~ GB 30000. 29-2013:**

Physical hazards: Not classified

Health hazards: Serious eye damage/eye irritation, Category 2A

Environmental hazards: Not classified

**Label elements**

**Symbol:**



**Signal word:** Warning

**Hazard Statement:**

H319: Causes serious eye irritation.

**Prevention Precautionary Statements:**

P264: Wash hands thoroughly after handling.

P280: Wear eye protection/face protection.

**Response Precautionary Statements:**

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

**Storage precautionary statements:**

No special requirement.

**Disposal precautionary statements:**

No special requirement.

**Physical and chemical hazards:** White liquid with slightly sour odor. The product is not flammable, and has no special danger.

**Health hazards:** Causes serious eye irritation.

**Environmental hazards:** No hazards are found.

**Other hazards:** No information available.

**3. Composition/information on ingredients**

**Product description:** substance ( ); preparation/mixture (√)

Ingredient (s)	CAS No.	% by weight
Ammonium Polyphosphate	68333-79-9	25%
Water	7732-18-5	20%
Pentaerythritol	115-77-5	20%
Melamine	108-78-1	15%
Adhesive	Not applicable	15%
Refractory fillers and fire retardant agent	Not applicable	5%

**4. First aid measures**

Persons using this product should consult a physician or other medical professional if an accident involving this product in injury. Specific first-aid measures are as follows:

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact:** No special measures as there is no hazard for normal contact. In case of contact with melts, immediately flush with cold water, if irritation persists, get medical advice/attention.

**Eyes Contact:** Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing. If eye irritation persists: get medical advice/attention.

**Ingestion:** Rinse mouth. Do not induce vomiting without professional instruction. Get medical attention if discomfort occurs.

**Acute effect and delayed effect:** Acute effect: Causes serious eye irritation. Delayed effect: Not found.

**Personal protective equipment:** Recommend wearing protective gloves (e.g. rubber gloves). Wear respirators and safety goggles when exposure limits are exceeded or liquid may splash.

**Indication of any immediate medical attention and special treatment needed:** Treat according to symptoms and exposure dose.

**5. Fire-fighting measures**

**Extinguishing Media:** In case of a fire, use dry chemical for small fire; water fog, foam or CO<sub>2</sub> for large fire. Do NOT use water jet which may make molten material splash. Seek advice from local fire-fighting authority.

**Special hazards arising from the chemical:** The product is not flammable, and has no special danger.

**Special Fire-Fighting Method:**

If there is no danger, clear all ignition sources.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Cool surrounding facilities, etc. with water spray.

Remove containers from fire area if it can be done without risk.

**Special actions for fire-fighters:** Firefighters must wear self-contained breathing apparatus and full protective equipment. Check whether the protective equipment is in good condition before use.

## 6. Accidental release measures

**Personal precautions:** Use proper personal protective equipment as indicated in Section 8.

**Emergency procedures:** Due to the nature of this product, there are no special requirement.

**Environmental Precautions:** Keep collected waste out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

**Measures for Cleaning/Collection:**

**Small Spill:**

Mop up or absorb with an inert dry material (e.g. sand, dry lime) and place in an appropriately labeled waste disposal container.

**Large Spill:**

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective clothing. Do NOT touch spilled material.

Build up dike or dig pit for collection. Containers should be clearly marked for recycling or disposed as waste.

## 7. Handling and storage

**Precautions for safe handling:**

Wash hands thoroughly after handling.

Wear eye protection/face protection.

Avoid damage of packaging or containers during handling.

**Storage:**

**Requirements to be met by storerooms:** Store it in a well-ventilated, cool and dry store room.

**Incompatible materials:** No special requirement for this product.

**Packing material:** Generally plastic containers are recommended.

**Additional Information:** The storeroom should be equipped with proper facilities for accidental leakage and fire.

## 8. Exposure controls/personal protection

**Occupational Exposure Limits:**

Ingredients	OELs (mg/m <sup>3</sup> ) (GBZ 2.1-2007)				ACGIH TLV-TWA	
	MAC	PC-TWA	PC-STEL	remark	TLV-TWA	remark
Pentaerythritol (CAS: 115-77-5)	--	--	--	--	10 mg/m <sup>3</sup>	--

**Monitoring Method:** The hazardous substances should be monitored per GBZ 159 "Sampling code for monitoring of hazardous substances in workplace air ". The well-accepted monitoring methods of other countries are also can be adopted.

**Biological limit:** Not data available

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Install washer eyes and safety showers near to the handling and storage area.

**Personal Protective Equipment (For workers):**

**Protection of Hands:** Recommend wearing protective gloves for industrial hygienic purpose.



**Protection of Eyes:** Wear safety glasses when liquid may splash.



**Respiratory Protection:** Use an approved respirator if exposure limit is exceeded or if irritation or other symptoms occur.



**Protection of Body:** Recommend wearing uniforms.



**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

**9. Physical and chemical properties**

General Information	
Form	Liquid
Color	White
Odor	Slightly sour odor
pH	No data available
Boiling Range	No data available
Melting point/Melting range	No data available
Flash point	No data available
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Density	No data available
Relative Vapor density	No data available
Vapor pressure	No data available

<b>Solubility in/Miscibility with Water</b>	No data available
<b>n-octanol/Water Partition Coefficient</b>	No data available
<b>Self-igniting Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Odor Threshold Value</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Viscosity</b>	No data available
<b>Flammability (solid, gas, etc.)</b>	Non-flammable

## 10. Stability and reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** The product is not flammable, and has no special danger.

**Conditions to Avoid:** Long-time direct sunlight and high temperature.

**Incompatible materials:** No information available.

**Hazardous decomposition products:** It may release smoke, carbon monoxide, carbon dioxide and other hazardous gas from thermal decomposition.

## 11. Toxicological information

### Product Toxicity Data:

Ingredient (s)	CAS No.	LD <sub>50</sub> /LC <sub>50</sub> (median lethal dose)
Ammonium Polyphosphate	68333-79-9	Acute toxicity (Oral) LD <sub>50</sub> > 300-2,000mg/kg (rat) Data source: ECHA Acute toxicity (Inhalation: mist) LD <sub>50</sub> >4.58mg/L/4h (rat) Data source: ECHA
Melamine	108-78-1	Acute toxicity (Oral) LD <sub>50</sub> : 3,160 mg/kg (rat) Data source: ECHA Acute toxicity (dermal) LD <sub>50</sub> > 1,000mg/kg (rabbit) Data source: Cited in RTECS and in ECB IUCLID4 2009 Acute toxicity (Inhalation: vapours or dust) LD <sub>50</sub> >0.03mg/L (rat) Data source: ECHA
Pentaerythritol	115-77-5	Acute toxicity (Oral) LD <sub>50</sub> > 5,110 mg/kg (rat) Data source: ECHA Acute toxicity (dermal) LD <sub>50</sub> > 10,000mg/kg (rabbit) Data source: ECHA
Classification of the whole product		not classified

**Skin corrosion/irritation:**

No classification for this product.

**Serious eye damage/eye irritation:**

Ammonium Polyphosphate (CAS: 68333-79-9): Category 2A  
(Data source: ECHA (2015))

Classification of the whole product: Category 2A

**Respiratory/ Skin sensitization:**

No classification for this product.

**Germ cell mutagenicity:**

No classification for this product.

**Carcinogenicity:**

No classification for this product.

**Reproductive Toxicity:**

No classification for this product.

<b>Specific target organ toxicity, single exposure:</b>	No classification for this product.
<b>Specific target organ toxicity, repeated exposure:</b>	No classification for this product.
<b>Aspiration hazard:</b>	No classification for this product.
<b>Effects on or via lactation:</b>	No classification for this product.
<b>Toxicokinetics, metabolism and distribution of information:</b>	No relevant information.
<b>Other health hazards:</b>	No relevant information.

## 12. Ecological information

**Ecotoxicity:** No data available for the whole product. The data shown below is of each ingredient.

Melamine (CAS: 108-78-1):

96h-LC<sub>50</sub>>4,400mg/L, fish (Poecilia reticulata) (Data source: ECHA)

Pentaerythritol (CAS: 115-77-5):

96h-LC<sub>50</sub>>100mg/L, fish (Oryzias latipes) (Data source: ECHA)

Classification of the whole product: not classified

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** As it is in liquid status, it can move in soil.

## 13. Disposal considerations

**Chemical Waste:** Transport to specialized waste disposal sites for disposal. It must strictly follow local regulations for disposal.

**Contaminated packaging:** The container or packaging may remain noxious substance and should be disposed as a hazardous waste.

**Cautions for disposal:**

Do not allow product to reach sewage system.

Do not throw it into any open bodies of water.

It is recommended to use landfill method to dispose of waste.

## 14. Transport Information

**DOT/ Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:**

**Proper Shipping Name:** Not regulated.

**Hazard Class:** Not classified.

**UN Code:** Not regulated.

**Packing Group:** Not classified.

**Packing Group Symbol:** Not classified.

**Marine Pollutant (Yes/No):** No

**EMS NO.:** Not regulated.

**Note:**

*Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipments and emergency facilities for handling with release; do NOT transport this product together with incompatible substances.*

## 15. Regulatory information

### Laws and Regulations of China:

#### General rule for classification and hazard communication of chemicals (GB 13690-2009):

Physical hazards: Not classified.

Health hazards: Serious eye damage/eye irritation, Category 2A

Environmental hazards: Not classified.

#### The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T 15098-2008):

Not applicable

**Dangerous Chemicals List (GB 12268-2012):** Not listed.

**Dangerous chemicals directory (2015):** The Principles for the Definition and Determination of Hazardous Chemicals is applicable for this product.

**Production Safety Law of the People's Republic of China:** As for safe production and management, emergency handling and legal liability, comply with relevant provisions of this law.

**Occupation Disease Prevention Law the People's Republic of China:** As for precautions, prevention, management and occupational disease diagnosis, comply with relevant provisions of this law.

**The Environment Protection Law of the People's Republic of China:** As for the prevention of environment pollution and environment protection, comply with relevant provisions of this law.

### International Laws and Regulations:

**TSCA (Toxic Substance Control Act):** Ingredients with specific CAS numbers are listed in the U.S. Toxic Substances Control Act Chemicals Substance Inventory List.

#### (EC) 1272/2008 Annex VI Table 3.1:

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
Not applicable	Not applicable	Not applicable

### Clean Water Act:

Chemical Name	Reportable Quantities	Hazardous Substances	Priority Pollutants	Toxic Pollutants
Not applicable	Not applicable	Not listed	Not listed	Not listed

**Carcinogenicity categories:** Not listed by EPA, NTP, ACGIH and IARC.

## 16. Other information

**DISCLAIMER:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

### References:

GB 16483-2008, GB 13690-2009, GB/T 17519-2013, GB 30000.2-2013~30000.29-2013, GB/T 15098-2008, GB12268-2012, Dangerous chemicals directory (2015), etc.

**Full description of some acronyms:**

**GHS-Globally Harmonized System of Classification and Labelling of Chemicals**

**CAS-Chemical Abstracts Service**

**EINECS-European Inventory of Existing Commercial Chemical Substances**

**ACGIH- American Conference of Governmental Industrial Hygienists**

**OSHA-Occupational Safety and Health Administration**

**IARC- International Agency for Research on Cancer**

**NTP- The National Toxicology Program**

**IMO-International Maritime Organization**

**IMDG-International Maritime Dangerous Goods**

**IATA-International Air Transport Association**

**ICAO-International Civil Aviation Organization**

**TSCA-Toxic Substance Control Act**

**ECHA- European Chemicals Agency**

**CWA- Clean Water Act**

**HSDB-NLM: Hazardous Substances Data Bank**

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