



上海越企实业有限公司

SHANGHAI RICH GROUP LIMITED

中国上海市嘉定区顺达路 300 弄(南翔现代企业园)4 栋

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MATERIAL SAFETY DATA SHEET

-- THPS

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SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Tetrakis(hydroxymethyl) phosphonium Sulfate(THPS)

CAS Reg. No: 55566-30-8

Company undertake

Shanghai Rich Group Limited

Bld 4, Modern Enterprise Park, No.300, Shunda Rd, Jiading, Shanghai, China

Tel: +86-21-69130116 Fax:+86-21-69130082

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SECTION 2: Composition/information on ingredients

2.1 Substance

Not applicable, this product is a mixture.

2.2 Mixture

Information on Components and Impurities

Chemical Name	CAS-No.	Identification number	GHS Classification	Concentration [%]
tetrakis(hydroxymethyl) phosphonium sulphate(2:1)	55566-30-8	not applicable	Acute toxicity , Category 4 ; H302 Acute toxicity , Category 2 ; H330 Serious eye damage , Category 1 ; H318 Skin sensitization , Sub-category 1A ; H317 Reproductive toxicity , Category 2 ;H361 Acute aquatic toxicity , Category 1 ;H400 Chronic aquatic toxicity , Category 2 ;H411	>= 70 - < 80

SECTION 3: Hazards identification

3.1 Classification of the substance or mixture

GHS Classification and labeling: Follow GB 13690, GB 20576-GB 20602 and GB 15258 (GHS 2011)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 3 H331: Toxic if inhaled.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the unborn child.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects



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3.2 Label elements

GHS Classification and labeling: Follow GB 13690, GB 20576-GB 20602 and GB 15258 (GHS 2011) Hazardous products which must be listed on the label:

• 55566-30-8 tetrakis(hydroxymethyl)phosphonium sulphate(2:1)

Pictogram :



Hazard statements : H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **General:** None

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P310 Immediately call a POISON CENTER or doctor/ physician.

P330 Rinse mouth.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage:



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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

3.3 Other hazards which do not result in classification

Lachrymatory effect.

NO particular fire or explosion hazard.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

First aider needs to protect himself.

Place affected clothing in a sealed bag for subsequent decontamination.

If inhaled : Move to fresh air. Keep at rest. Get immediate medical advice/ attention.

Skin contact : Take off contaminated clothing and shoes immediately. Wash off with plenty of water. Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Eye contact : Rinse with running water whilst keeping the eyes wide open (at least 15 minutes) Get immediate medical advice/ attention.

Ingestion : Do NOT induce vomiting. Do not give anything to drink. Get immediate medical advice/ attention.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

Flash point : not applicable

Auto-ignition temperature : no data available

Flammability/Explosive limit : no data available

5.1 Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

Unsuitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Highly toxic gases are released.

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus (EN 133)

Full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment
and emergency procedures



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: Avoid contact with eyes, skin and respiratory system.

If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire brigade).

Complete suit protecting against chemicals

For further information refer to section 8 "Exposure controls/personal protection".

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Contain the spilled material by bunding.

6.3 Methods and materials for containment and cleaning up

Recovery : Recover as much of the product as possible. Absorb the product onto porous material. Pick up and transfer to properly labeled containers. Keep in suitable, closed containers for disposal.

Neutralization : Absorb spillage with: diatomaceous earth. Sand Soak up with inert absorbent material.

Decontamination/cleaning : Wash off with plenty of water. Recover the cleaning water for subsequent disposal.

Disposal : Dispose of contents/ container to an approved waste disposal plant.

6.4 Reference to other sections

no data available

SECTION 7: HANDLING & STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible products : Strong reducing agents. Strong oxidizing agents Strong acids Strong bases

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material

handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs.

Waste resulting from these procedures should be handled in accordance with Section XIII: Disposal Considerations.

Assistance with this selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines:

No exposure limits were found for this product.

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures.

Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standard and/or



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industrial recommendations.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices.

Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area. Face contact should be prevented through use of a face shield.

Skin Protection:

Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tetrakis(hydroxymethyl)phosphonium Sulfate	2 mg/m ³ TWA	none listed	none listed
water	none listed	none listed	none listed

OSHA Vacated PELs: Tetrakis(hydroxymethyl)phosphonium chloride: No OSHA Vacated PELs are listed for this chemical. Water: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: 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.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Physical state: liquid

Colour: colourless to pale yellow.



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Odour : characteristic

Odour Threshold : no data available

pH : 3.0 - 6.0 (20 °C)

Flash point : not applicable

Evaporation rate (Butylacetate = 1) : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Flammability/Explosive limit : no data available

Auto-ignition temperature : no data available

Vapour pressure : no data available

Vapour density : no data available

Density : 1.37 - 1.41 g/cm³ (20 °C)

Solubility : Water solubility : miscible, in all proportions

Solubility in other solvents: Methanol : soluble N-Methylpyrrolidone : soluble Isopropanol : soluble Acetone :
insoluble Tetrahydrofuran : insoluble

Partition coefficient: n-octanol/water : log Pow: -9.8

Structure-activity relationship (SAR), estimated

Thermal decomposition : no data available

Viscosity : no data available

Explosive properties : no data available

Oxidizing properties : not applicable

9.2 Other information

no data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Conditions to avoid : Thermal decomposition 160 °C

10.5 Incompatible materials

Materials to avoid : Strong bases Strong reducing agents Strong acids Strong oxidizing agents

10.6 Hazardous decomposition products

Decomposition products : Sulphur oxides Oxides of phosphorus (Carbon oxides (CO + CO₂)).

PHOSPHINE Hydrogen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity



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Acute oral toxicity : LD50 Oral : 575 mg/kg - rat , for males and females THPS 75%,

Harmful if swallowed. Unpublished internal reports

Acute inhalation toxicity : LC50 - 4 h (dust/mist) : 0.591 mg/l - rat , for males and females THPS 75%

Toxic by inhalation. Published data

Acute dermal toxicity : LD50 : > 2,000 mg/kg - rat , for males and females THPS 75%

Not classified as harmful by contact with skin Unpublished internal reports

Acute toxicity (other routes of administration) : Humans Symptoms: Watering of the eyes

Skin corrosion/irritation

Skin irritation : rabbit No skin irritation

Method: OECD Test Guideline 404

THPS 75% Unpublished internal reports

Serious eye damage/eye irritation

Eye irritation : Risk of serious damage to eyes. Method: OECD Test Guideline 405

THPS 75%, Extremely irritating to rabbits on ocular application. Unpublished internal reports

Respiratory or skin sensitisation

Sensitisation : May cause sensitization by skin contact.

THPS 75% Unpublished internal reports

Mutagenicity

Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay) with or without metabolic activation. Negative THPS 75% Unpublished internal reports

Mutagenicity (in vitro mammalian cytogenetic test) Strain: CHO

with or without metabolic activation

Positive THPS 75% Unpublished internal reports

UDS test Strain: rat

Negative THPS 75% Unpublished internal reports

Mouse lymphoma test/TK with or without metabolic activation

Positive THPS 75% Unpublished internal reports

Genotoxicity in vivo : Product is not considered to be genotoxic

Rodent dominant Lethal test - rat negative THPS 75% Unpublished internal reports

In vivo micronucleus test - mouse

Negative THPS 75% Unpublished internal reports

Carcinogenicity

Carcinogenicity : Oral toxicity tests on rats and mice did not reveal any carcinogenic potential.

THPS 75% Published data

Toxicity for reproduction and development

Toxicity to reproduction/Fertility : Fertility study 2 generations - rat

Oral exposure

no impairment of fertility has been observed THPS 75% Unpublished internal reports

Developmental Toxicity/Teratogenicity : rat

Oral exposure

NOEL teratogenicity: 30 mg/kg

NOEL maternal: 15 mg/kg



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THPS 75% Unpublished internal reports

rabbit

Oral exposure NOEL teratogenicity: 18 mg/kg

NOEL maternal: 18 mg/kg

THPS 75%

Effects on development were observed

May cause harm to the unborn child.

Unpublished internal reports

STOT

STOT - single exposure : no data available

STOT - repeated exposure : Oral exposure 90 Days - rat , for males and females

NOEL: 1 mg/kg/day THPS 75% Liver toxicity Unpublished internal reports

Neurological effects

Neurological effects : THPS 75%, The product does not induce inhibition, Screening biochemistry test kit for cholinesterase activity inhibition

Experience with human exposure

Experience with human exposure : Inhalation : THPS 75%

Not classified as irritating to respiratory system.

Aspiration toxicity

Aspiration toxicity : no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish : LC50 - 96 h : 119 mg/l - *Oncorhynchus mykiss* (rainbow trout)

THPS 75% Unpublished internal reports

LC50 - 96 h : 93 mg/l - *Lepomis macrochirus* (Bluegill sunfish)

THPS 75% Unpublished internal reports

Acute toxicity to daphnia and other aquatic invertebrates.: EC50 - 48 h : 19.4 mg/l - *Daphnia magna* (Water flea)

THPS 75% Unpublished internal reports

Toxicity to aquatic plants : EC50 - 96 h : 0.20 mg/l - *Pseudokirchneriella subcapitata*

THPS 75% Unpublished internal reports

Toxicity to microorganisms : EC50 - 3 h : 24 mg/l - activated sludge

THPS 75% Unpublished internal reports

Ecotoxicity assessment

Acute aquatic toxicity

tetrakis(hydroxymethyl)phosphonium

sulphate(2:1): Very toxic to aquatic organisms.

Unpublished internal reports

Chronic aquatic toxicity

tetrakis(hydroxymethyl)phosphoniumsulphate(2:1): Toxic to aquatic life with long lasting effects.

M-Factor



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tetrakis(hydroxymethyl)phosphonium sulphate(2:1)

: Acute aquatic toxicity = 1

(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability

Biodegradability

Biodegradability : Ultimate aerobic biodegradability

Method: Simulation study 70 % - 21 d Readily biodegradable. THPS 75%

US EPA FIFRA, Subdivision N, § 162-4

Anaerobic Method: Simulation study 60 % - 30 d THPS 75%

US EPA FIFRA, Subdivision N, § 162-3

Product is not persistent. THPS 75%

Other Physico-Chemical reactions : Product is easily oxidizable in aqueous media in dilute solutions

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water : THPS 75% Not potentially bioaccumulable

12.4 Mobility in soil

Adsorption potential (Koc) : Log Koc: 2.2 THPS 75% Moderately mobile in soils

Known distribution to environmental compartments: Ultimate destination of the product : Water

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Environment assessment : DANGEROUS FOR THE ENVIRONMENT (N). According to the classification criteria for mixtures.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

Prohibition : Do not empty into drains.

Advice on Disposal : Dispose of as hazardous waste in compliance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Advice on cleaning and disposal of packaging

Advice : Take preliminary precautions based on the dangerous properties of the product. Empty the packaging completely prior to disposal.

Reason for waste disposal : Dispose of as hazardous waste in compliance with local and national regulations.

Other data : Dispose of in accordance with local regulations.

SECTION 14: Transport information

CN_DG

14.1 UN number UN 2922

14.2 Dangerous Good Description UN 2922 CORROSIVE LIQUID, ORGANIC, N.O.S.
(TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE), 8, III



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14.3 Transport hazard class 8

14.4 Packing group

Packing group III Label(s): 8

14.5 Environmental hazards

Marine pollutant YES

14.6 Special precautions for user

For personal protection see section 8.

ADR

14.1 UN number UN 2922

14.2 Dangerous Good Description UN 2922 CORROSIVE LIQUID, ORGANIC, N.O.S.

(TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE), 8, III, (E)

14.3 Transport hazard class 8

14.4 Packing group

Packing group III

Classification Code T1

Label(s): 8

Tunnel restriction code (E)

14.5 Environmental hazards

Marine pollutant

YES

14.6 Special precautions for user

For personal protection see section 8.

RID

14.1 UN number UN 2922

14.2 Dangerous Good Description UN 2922 CORROSIVE LIQUID, ORGANIC, N.O.S.

(TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE), 8, III

14.3 Transport hazard class 8

14.4 Packing group

Packing group III

Classification Code T1

Hazard Identification Number: 60

Label(s): 8

14.5 Environmental hazards

Marine pollutant YES

14.6 Special precautions for user

For personal protection see section 8.

IMDG

14.1 UN number UN 2922

14.2 Dangerous Good Description UN 2922 CORROSIVE LIQUID, ORGANIC, N.O.S.

(TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE), 8, III

14.3 Transport hazard class 8

14.4 Packing group



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Packing group III

Label(s): 8

EmS F-A , S-A

14.5 Environmental hazards

Marine pollutant YES

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

IATA

14.1 UN number UN2922

14.2 Dangerous Good Description UN 2922 CORROSIVE LIQUID, ORGANIC, N.O.S.

(TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULPHATE), 8, III

14.3 Transport hazard class 8

14.4 Packing group

Packing group III

Label(s): 8

Packing instruction (cargo aircraft) 663

Max net qty/pkg 220.00 L

Packing instruction (passenger aircraft) 655

Max net qty/pkg 60.00 L

14.5 Environmental hazards

Marine pollutant YES

14.6 Special precautions for user

For personal protection see section 8.

SECTION 15: Regulatory information

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

Following last version of regulations are applicable for the chemical classification, SDS and label:

-General Rule for classification and hazard communication of chemicals, GB 13690

-Series standards of Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB20576~GB 20602)

-General rules for preparation of precautionary label for chemicals, GB 15258

-Safety data sheet for chemical products—Content and order of sections, GB/T 16483

Notification status

These data are not exhaustive but given for information. Contact your supplier for additional information

United States TSCA Inventory : Y = All ingredients are on the inventory

Canadian Domestic Substances List (DSL) : Y = All ingredients are on the inventory

European Inventory of Existing Commercial Chemical Substances (EINECS) : Y = All ingredients are on the inventory

Australia Inventory of Chemical Substances (AICS) : Y = All ingredients are on the inventory

Japan. ISHL - Inventory of Chemical Substances : Y = All ingredients are on the inventory

Korea. Korean Existing Chemicals Inventory (KECI) : Y = All ingredients are on the inventory



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China. Inventory of Existing Chemical Substances in China (IECSC) : Y = All ingredients are on the inventory

New Zealand. Inventory of Chemical Substances : Y = All ingredients are on the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : Y = All ingredients are on the inventory

SECTION 16: OTHER INFORMATION

We granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Shanghai Rich Group Limited shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

