



杭州孚伦特科技有限公司

Hangzhou Volant Technology Co.,Ltd

MATERIAL SAFETY DATA SHEET OF TETRABUTYLPHOSPHONIUM BROMIDE

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name : Tetrabutylphosphonium bromide

Product Number :T112

Brand : Volant

CAS No. : 3115-68-2

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 :Hangzhou Volant Technology Co.,Ltd

Address: No.6, Hangtai North Road, Zhongtai Industrial Park, Yuhang District, Hangzhou, China.

Telephone : +86-571-85023839-822

Fax : +86-571-81634339

E-mail address : jianjun.tian@volantgroup.com

1.4 Effective information

Enterprise emergency phone: +86-571-85021780

Technical instruction coding: QHSE-QA-T112

Version No.: B

Effective date: Jan 02, 2022

Expiration Date: Jan 01, 2027

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2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Corrosive to Metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 3), H311

Serious eye damage (Category 1), H318

Skin sensitization (Sub-category 1B), H317

Reproductive toxicity (Category 2), H361fd

Long-term (chronic) aquatic hazard (Category 2), H411

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

2.2 Label elements

Pictogram





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Signal word Danger

Hazard statement(s)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

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

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

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

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.

Supplemental Hazard

Statements none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name:TETRABUTYLPHOSPHONIUM BROMIDE

CAS:3115-68-2

EC No:221-487-8

Formula C16H36BrP

Molecular Weight:339.35/mol

4. FIRST AID MEASURES

4.1 After inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

4.2 After skin contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Call a physician.

4.3 After eye contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

4.4 After ingestion

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.



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5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

5.2 Special risks

Specific Hazard(s): Emits toxic fumes under fire conditions.

5.3 Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Person precaution procedures to be followed in case of leak or spill

Evacuate area.

6.2 Procedure(S) of personal precaution(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

6.3 Methods for cleaning up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

7.1 Handling

Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

7.2 Storage

Conditions of Storage: Keep tightly closed.

7.3 Special requirements

Hygroscopic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering controls

Use only in a chemical fume hood. Safety shower and eye bath.

8.2 General hygiene measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

8.3 Personal protective equipment

Respiratory Protection

Use respirators and components tested and approved under appropriate government standards. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.



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Hand Protection

Compatible chemical-resistant gloves.

Eye Protection

Chemical safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Color: White to off-white Form: Fine crystals	
b)Property	Value	At Temperature or Pressure
c)pH	no data available	
d)BP/BP Range	no data available	
e)MP/MP Range	99-102°C	
f)Flash Point	290 °C	Method: closed cup
g)Flammability	no data available	
h)Autoignition Temp	no data available	
i)Oxidizing Properties	no data available	
j)Explosive Properties	no data available	
k)Explosion Limits	no data available	
l)Vapor Pressure	no data available	
m)Partition Coefficient	no data available	
n)Viscosity	no data available	
o)Vapor Density	no data available	
p)Saturated Vapor Conc.	no data available	
q)Evaporation Rate	no data available	
r)Bulk Density	no data available	
s)Decomposition Temp.	no data available	
t)Solvent Content	no data available	
u)Water Content	no data available	
v)Surface Tension	no data available	
w)Conductivity	no data available	
x)Miscellaneous Data	no data available	
y)Solubility	no data available	

10. STABILITY AND REACTIVITY

10.1 Stability

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

10.2 Hazardous decomposition products

Carbon monoxide, Carbon dioxide,



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Hydrogen bromide gas, Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

10.3 Hazardous Polymerization

Will not occur

11. TOXICOLOGICAL INFORMATION

11.1 Signs and symptoms and symptoms of exposure

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

11.2 Route of exposure

Skin Contact: Causes skin irritation.

Skin Absorption: Harmful if absorbed through skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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 Other adverse effects

Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Substance disposal

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. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3464

IMDG: 3464

IATA: 3464

14.2 UN proper shipping name



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ADR/RID: Organophosphorus compound

IMDG: Organophosphorus compound

IATA: Organophosphorus compound

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: NO

IMDG Marine pollutant: NO

IATA: NO

15. REGULATORY INFORMATION

15.1 Classification and labeling according to EU directives

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 36/37/38-21/22

Irritating to eyes, respiratory system and skin. Harmful in contact with skin and if swallowed.

S-PHRASES: 26-37/39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

15.2 Country specific information

Germany

WGK: 1

Self-Classification

16. OTHER INFORMATION

Further information

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. Hangzhou Volant Technology Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.



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分析报告单

CERTIFICATE OF ANALYSIS

产品名称 Product Name	四丁基溴化磷 TetraButylPhosphonium Bromide	产品编号 Product Code	T112
CAS 号 CAS No.	3115-68-2	UN 号 UN No.	3464
化名 Pseudonyms	TBPBr	指标号 Specification No.	T112 - Spec 1
批号 Batch No.	230617-1	生产日期 Manu. Date	2023年06月 Jun. 2023
重量 Quantity	1500kg	复测日期 Retest. Date	2024年06月 Jun. 2024
制造商 Manufacturer	江西新信化学有限公司 Jiangxi Xinxin Chemical Co., Ltd		

检验项目 ITEMS	检验标准 SPECIFICATION	检验结果 RESULTS	判定 DECISION
外观 Appearance	白色至类白色晶体 White to off-white Crystal	符合 conforms	合格 OK
含量 Assay™	98.0% Min	99.8%	合格 OK
熔点 M.P	99-104℃	100.4-101.5℃	合格 OK
水分 Water(KF)	1.0% Max	0.45%	合格 OK
结论 CONCLUSION	符合企业标准 CONFORM TO THE ENTERPRISE STANDARD		
备注 NOTE	储存建议: 密封, 避光, <30℃。 Storage conditions: Sealed, avoid light, less than 30℃		

检验人/日期 (Analyst/Date):

钟紫珺

2023-07-24

复核人/日期 (Check/Date):

田建军

2023-07-24



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分析报告单

CERTIFICATE OF ANALYSIS

产品名称 Product Name	四丁基溴化磷 TetraButylPhosphonium Bromide	产品编号 Product Code	T112
CAS 号 CAS No.	3115-68-2	UN 号 UN No.	3464
化名 Pseudonyms	TBPBr	指标号 Specification No.	T112 - Spec 1
批号 Batch No.	230617-1	生产日期 Manu. Date	2023 年 06 月 Jun. 2023
重量 Quantity	1500kg	复测日期 Retest. Date	2024 年 06 月 Jun. 2024
制造商 Manufacturer	江西新信化学有限公司 Jiangxi Xinxin Chemical Co., Ltd		

检验项目 ITEMS	检验标准 SPECIFICATION	检验结果 RESULTS	判定 DECISION
外观 Appearance	白色至类白色晶体 White to off-white Crystal	符合 conforms	合格 OK
含量 Assay™	98.0% Min	99.8%	合格 OK
熔点 M.P	99-104℃	100.4-101.5℃	合格 OK
水分 Water(KF)	1.0% Max	0.45%	合格 OK
结论 CONCLUSION	符合企业标准 CONFORM TO THE ENTERPRISE STANDARD		
备注 NOTE	储存建议: 密封, 避光, <30℃。 Storage conditions: Sealed, avoid light, less than 30℃		

检验人/日期 (Analyst/Date):

钟紫珺

2023-07-24

复核人/日期 (Check/Date):

田建军

2023-07-24



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Material safety data sheet of Triphenyl phosphite

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Triphenyl phosphite

Product Number : T115

Brand : Volant

CAS-No. : 101-02-0

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 : Hangzhou Volant Technology Co.,Ltd

Address: No.6, Hangtai North Road, Zhongtai Industrial Park, Yuhang District, Hangzhou, China.

Telephone : +86-571-85023839-822

Fax : +86-571-81634339

E-mail address : jianjun.tian@volantgroup.com

1.4 Effective information

Enterprise emergency phone: +86-571-85021780

Technical instruction coding: QHSE-QA-T115

Version No.: D

Effective date: Oct 10, 2022

Expiration Date: Oct 09, 2027

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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

Skin irritation (Category 2), H315

Skin sensitization (Category 1), H317

Eye irritation (Category 2), H319

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi Irritant R36/38

N Dangerous for the environment R50/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

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Pictogram

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

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

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

P391 Collect spillage. Supplemental

Hazard none

Statements

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

Xi Irritant

N Dangerous for the environment

R-phrase(s)

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Formula : C₁₈H₁₅O₃P

Molecular weight : 310,28 g/mol

CAS-No. : 101-02-0

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

Hazardous ingredients



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Component	Classification	Concentration
Triphenyl phosphite	Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Skin sensitization (Category 1), H317 Eye irritation (Category 2), H319 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), 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, Oxides of phosphorus.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.



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6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. 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 inhalation of vapour or mist.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas. Air sensitive. Moisture sensitive.

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace 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.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min



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Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, 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 industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: clear
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	22 - 24 °C - lit.
f) Initial boiling point and boiling range	360 °C - lit.
g) Flash point	210 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower	no data available



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flammability or
explosive limits

k) Vapour pressure	>= 0,00 hPa at 25 °C
l) Vapour density	no data available
m) Relative density	1,184 g/mL at 25 °C
n) Water solubility	no data available
o) Partition coefficient: n- octanol/water	no data available
p) Auto-ignition temperature	> 400 °C at 1013,250 hPa
q) Decomposition temperature	no data available
r) Viscosity	17,7 mm ² /s at 20 °C -
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.

Contains the following stabiliser(s):

Phenol (0,5 %).

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

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 1.590 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 1 h - > 6,7 mg/l



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(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irritating to eyes. - 7 d

(OECD Test Guideline 405)

Respiratory or skin sensitisation

- Mouse

Result: May cause sensitisation by skin contact.

(OECD Test Guideline 429)

Germ cell mutagenicity

Ames test

Salmonella typhimurium

Result: negative

OECD Test Guideline 474

Mouse - male and female

Result: negative

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

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 15 mg/kg

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

no data available

12.2 Persistence and degradability



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Biodegradability aerobic - Exposure time 28 d

Result: 0,14 % - Not readily biodegradable.

(OECD Test Guideline 301D)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

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

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphite)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphite)

IATA: Environmentally hazardous substance, LIQUID, n.o.s. (Triphenyl phosphite).

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: yes

IMDG Marine pollutant: yes

IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination

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packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: Regulatory information

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

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: Other information

Further information

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects

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. Hangzhou Volant Technology Co.Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.



杭州孚伦特科技有限公司

Hangzhou Volant Technology Co., Ltd

分析报告单
CERTIFICATE OF ANALYSIS

产品名称 Product Name	亚磷酸三苯酯 Triphenyl phosphite	产品编号 Product Code	T115
CAS 号 CAS No.	101-02-0	UN 号 UN No.	3082
化名 Pseudonyms	TPPI	指标号 Specification No.	T115 - Spec 2
批号 Batch No.	20230720	生产日期 Manu. Date	2023年07月 Jul. 2023
重量 Quantity	925kg	复测期限 Retest. Date	2024年07月 Jul. 2024

检验项目 ITEMS	检验标准 SPECIFICATION	检验结果 RESULTS	判定 DECISION
外观 Appearance	白色至类白色结晶; White to off-white crystalline 无色透明液体 (熔融状态下) Colorless transparent liquid (molten state)	无色透明液体 Colorless transparent liquid	合格 OK
色度 Color	50 max	12	合格 OK
折光率 Refractive index	1.588-1.590	1.5892	合格 OK
密度 Density	1.180-1.186(25℃)	1.184	合格 OK
凝固点 Freezing point	19-24℃	22.8℃	合格 OK
酸值 Acid value	≤0.50 KOH mg/g	0.06	合格 OK
结论 CONCLUSION	符合企业标准 CONFORM TO THE ENTERPRISE STANDARD		
备注 NOTE	储存建议: 密封, 避光, <30℃。 Storage conditions: Sealed, avoid light, less than 30℃		

检验人/日期 (Analyst/Date):

钟紫珺

2023-07-26

复核人/日期 (Checker/Date):

田建军

2023-07-26