# Chemical Safety Data Sheet MSDS / SDS

# Tris(nonylphenyl) phosphite

Revision Date:2023-11-11 Revision Number:1

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

#### **Product identifier**

Product name : Tris(nonylphenyl) phosphite

CBnumber : CB1266308

CAS : 26523-78-4

EINECS Number : 247-759-6

Synonyms: TRIS(NONYLPHENYL) PHOSPHITE, Irgafos TNPP

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

# **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 400-158-6606

# **SECTION 2: Hazards identification**

# Classification of the substance or mixture

Skin sensitization, Category 1

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

## Label elements

## Pictogram(s)

Signal word Danger

## Hazard statement(s)

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H335 May cause respiratory irritation

, ,

H410 Very toxic to aquatic life with long lasting effects

#### Precautionary statement(s)

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

P273 Avoid release to the environment.

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

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position 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.

Continuerinsing.

P405 Store locked up.

P501 Dispose of contents/container to.....

#### Prevention

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

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

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

P273 Avoid release to the environment.

#### Response

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

P333+P317 If skin irritation or rash occurs: Get medical help.

P321 Specific treatment (see ... on this label).

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

P391 Collect spillage.

### Storage

none

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

# **Substance**

Product name : Tris(nonylphenyl) phosphite

Synonyms: TRIS(NONYLPHENYL) PHOSPHITE, Irgafos TNPP

CAS : 26523-78-4
EC number : 247-759-6
MF : C45H69O3P

MW : 689

# SECTION 4: First aid measures

## Description of first aid measures

#### If inhaled

Fresh air, rest. Seek medical attention if you feel unwell.

#### Following skin contact

Rinse and then wash skin with water and soap.

#### Following eye contact

Rinse with plenty of water (remove contact lenses if easily possible).

### Following ingestion

Rinse mouth. Give one or two glasses of water to drink. Seek medical attention if you feel unwell.

## Most important symptoms and effects, both acute and delayed

no data available

### Indication of any immediate medical attention and special treatment needed

no data available

# **SECTION 5: Firefighting measures**

## Extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

# **Specific Hazards Arising from the Chemical**

Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

# Advice for firefighters

Use alcohol-resistant foam, dry powder, carbon dioxide.

# SECTION 6: Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal protection: chemical protection suit, protective gloves and face shield. Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent. Then store and dispose of according to local regulations. Do NOT let this chemical enter the environment.

# **Environmental precautions**

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

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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# Precautions for safe handling

NO open flames. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

# Conditions for safe storage, including any incompatibilities

Dry. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.

# SECTION 8: Exposure controls/personal protection

# **Control parameters**

#### Occupational Exposure limit values

no data available

### **Biological limit values**

no data available

# **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

# Individual protection measures

# Eye/face protection

Wear safety spectacles.

## Skin protection

Protective gloves. Protective clothing.

# Respiratory protection

Use ventilation.

# Thermal hazards

no data available

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

Physical state	COLOURLESS VISCOUS LIQUID.
Colour	no data available
Odour	no data available
Melting point/freezing point	no data available
Boiling point or initial boiling point and	
boiling range	
Flammability	no data available
Lower and upper explosion	no data available

### limit/flammability limit

Flack maint	2079.0
Flash point	207°C
Auto-ignition temperature	440°C
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	Solubility in water, g/100ml: 4.1
Partition coefficient n-octanol/water	8
Vapour pressure	0.058 Pa(25°C)
Density and/or relative density	0.979~0.9870.990
Relative vapour density	0.979~0.9870.990
Particle characteristics	no data available

# SECTION 10: Stability and reactivity

# Reactivity

no data available

# **Chemical stability**

no data available

# Possibility of hazardous reactions

On combustion, forms of phosphorus oxides.

# **Conditions to avoid**

no data available

# Incompatible materials

no data available

# Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

# **Acute toxicity**

Oral: no data available

• Inhalation: no data available

• Dermal: no data available

# Skin corrosion/irritation

no data available

# Serious eye damage/irritation

no data available

# Respiratory or skin sensitization

no data available

# Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

# Reproductive toxicity

no data available

# STOT-single exposure

no data available

# STOT-repeated exposure

Repeated or prolonged contact may cause skin sensitization.

# **Aspiration hazard**

No indication can be given about the rate at which a harmful concentration of this substance in the air is reached.

# SECTION 12: Ecological information

# **Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

# Persistence and degradability

no data available

# Bioaccumulative potential

no data available

# Mobility in soil

no data available

# Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

## Disposal methods

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: UN3082 (For reference only, please check.)

IMDG: UN3082 (For reference only, please check.)

IATA: UN3082 (For reference only, please check.)

# **UN Proper Shipping Name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (For reference only, please check.)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (For reference only, please check.)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (For reference only, please check.)

# Transport hazard class(es)

ADR/RID: 9 (For reference only, please check.)

IMDG: 9 (For reference only, please check.)

IATA: 9 (For reference only, please check.)

# Packing group, if applicable

ADR/RID: III (For reference only, please check.)

IMDG: III (For reference only, please check.)

IATA: III (For reference only, please check.)

#### **Environmental hazards**

ADR/RID: Yes

IMDG: Yes

IATA: Yes

# Special precautions for user

no data available

# Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations specific for the product in question

**European Inventory of Existing Commercial Chemical Substances (EINECS)** 

Listed.

**EC Inventory** 

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

**PICCS** 

Listed.

**Vietnam National Chemical Inventory** 

Listed.

**IECSC** 

Listed.

Korea Existing Chemicals List (KECL)

Listed.

# SECTION 16: Other information

## Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

# References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

 $HSDB-Hazardous\ Substances\ Data\ Bank,\ website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm$ 

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?

pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

# **Other Information**

The substance may hydrolyse in contact with water forming phosphoric acid, nonylphenol and phenol. See ICSCs 0070, 0309 and 1008.

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.