# Chemical Safety Data Sheet MSDS / SDS

# **URIDINE 5'-TRIPHOSPHATE TRIS SALT**

Revision Date:2025-02-01 Revision Number:1

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

### **Product identifier**

Product name	: URIDINE 5'-TRIPHOSPHATE TRIS SALT	
CBnumber	: CB4418861	
CAS	: 108321-53-5	
Synonyms	: Uridine 5'-triphosphate (UTP)	
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	: 010-86108875	

### SECTION 2: Hazards identification

### GHS Label elements, including precautionary statements

Signal word	no data available
Hazard statement(s)	
no data available	
Prevention	
no data available	
Response	
no data available	
Storage	
no data available	
Disposal	
no data available	

# SECTION 3: Composition/information on ingredients

Product name	: URIDINE 5'-TRIPHOSPHATE TRIS SALT
Synonyms	: Uridine 5'-triphosphate (UTP)
CAS	: 108321-53-5
MF	: C13H26N3O18P3
MW	: 605.28

### SECTION 4: First aid measures

### Description of first aid measures

### lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

### 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

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

No data available

### **SECTION 5: Firefighting measures**

### **Extinguishing media**

### Suitable extinguishing media

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

### Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **Further information**

No data available

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

### **Environmental precautions**

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **Reference to other sections**

For disposal see section 13.

### SECTION 7: Handling and storage

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C

### 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

### control parameter

### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

### **Exposure controls**

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

Eye/face protection

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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**Body Protection** 

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The Chemical Book

type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** 

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Appearance	solid
Odour	No data available
Odour Threshold	No data available
рН	No data available
Melting point/freezing point	No data available
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	No data available
limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	H2O: soluble50mg/mL, clear, colorless
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

### Other safety information

No data available

### SECTION 10: Stability and reactivity

### Reactivity

### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus Other decomposition products - No data available In the event of fire: see section 5

### SECTION 11: Toxicological information

### Information on toxicological effects

### Acute toxicity

No data available

Inhalation: No data available

### Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

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

Central nervous system depression, Gastrointestinal disturbance, narcosis, Damage to the eyes., Liver injury may occur., Damage to the heart., Kidney injury may occur., May cause convulsions.

### **SECTION 12: Ecological information**

### Toxicity

No data available

### Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

### Waste treatment methods

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### **Contaminated packaging**

Dispose of as unused product.

### **SECTION 14: Transport information**

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```
IATA:
UN number
ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:
IATA:IATA:
IATA:
```

### **UN** number

ADR/RID: 2050 IMDG: 2050 IATA: 2050 ADR/RID: 1993 IMDG: 1993 IATA: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993 ADR/RID: - IMDG: - IATA: -ADR/RID: 3272 IMDG: 3272 IATA: 3272 ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1 ADR/RID: 3077 IMDG: 3077 IATA: 3077 ADR/RID: 3077 IMDG: 3077 IATA: 3077 ADR/RID: 2391 IMDG: 2391 IATA: 2391 ADR/RID: 3 (8) IMDG: 3 (8) IATA: 3 (8) ADR/RID: 11 IMDG: 11 IATA: 11

### Packaging group

ADR/RID: II IMDG: II IATA: II

ADR/RID: ESTERS, N.O.S. (trans-Hex-2-enyl acetate) IMDG: ESTERS, N.O.S. (trans-Hex-2-enyl acetate) IATA: Esters, n.o.s. (trans-Hex-2-enyl acetate)

ADR/RID: - IMDG: - IATA: -

ADR/RID: FLAMMABLE LIQUID, N.O.S. (4-Methylthiazole) IMDG: FLAMMABLE LIQUID, N.O.S. (4-Methylthiazole) IATA: Flammable liquid, n.o.s. (4-Methylthiazole)

ADR/RID: FLAMMABLE LIQUID, N.O.S. (Ethyl vinyl sulfide) IMDG: FLAMMABLE LIQUID, N.O.S. (Ethyl vinyl sulfide) IATA: Flammable liquid,

n.o.s. (Ethyl vinyl sulfide)

ADR/RID: DIISOBUTYLENE, ISOMERIC COMPOUNDS IMDG: DIISOBUTYLENES, ISOMERIC COMPOUNDS IATA: Diisobutylene, isomeric compounds

ADR/RID: II IMDG: II IATA: II

ADR/RID: IODOMETHYLPROPANES IMDG: IODOMETHYLPROPANES IATA: lodomethylpropanes

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Bromo-3- nitrobenzaldehyde) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Bromo-3- nitrobenzaldehyde) IATA: Environmentally hazardous substance, solid, n.o.s. nitrobenzaldehyde)

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-(4- Methoxyphenoxy)benzoic acid) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-(4- IATA: Environmentally hazardous substance, solid, n.o.s. Methoxyphenoxy)benzoic acid)

### Transport hazard class(es)

(4-(4- ADR/RID: 9 IMDG: 9 IATA: 9
(4-Bromo-3- ADR/RID: 9 IMDG: 9 IATA: 9
ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: no IMDG Marine pollutant: no IATA: no
ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: 10 IMDG Marine pollutant: no IATA: no
ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: 10 IMDG Marine pollutant: no IATA: no
ADR/RID: 10 IMDG Marine pollutant: no IATA: no
ADR/RID: 10 IMDG Marine pollutant: no IATA: no

### Special precautions for user

No data available ADR/RID: III IMDG: III IATA: III No data available ADR/RID: III IMDG: III IATA: III ADR/RID: II IMDG: II IATA: II No data available ADR/RID: II IMDG: II IATA: II ADR/RID: III IMDG: III IATA: II ADR/RID: III IMDG: III IATA: III

### **Environmental hazards**

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes ADR/RID: yes IMDG Marine pollutant: yes IATA: no ADR/RID: yes IMDG Marine pollutant: yes IATA: yes Methoxyphenoxy)benzoic acid) 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 packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. ADR/RID: yes IMDG Marine pollutant: yes IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

ADR/RID: no IMDG Marine pollutant: no IATA: no

ADR/RID: no IMDG Marine pollutant: no IATA: no

### Special precautions for user

No data available

Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

### SECTION 15: Regulatory information

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

#### **Regulations on the Safety Management of Hazardous Chemicals**

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

### Measures for Environmental Management of New Chemical Substances

Vietnam National Chemical Inventory:Not Listed. website: https://chemicaldata.gov.vn/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/

New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

#### EC Inventory:Not Listed.

European Inventory of Existing Commercial Chemical Substances (EINECS):Not Listed. website: https://echa.europa.eu/ United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/

### **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

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

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

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

[4] eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

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

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

[7] HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

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

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

[10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

**Disclaimer:** 

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