

Australian statement of hazardous nature: Classified as hazardous according to criteria of Safe Work Australia

Section 1 - Identification

Product Name PHOSPHATE #2 LR tablets

Product Code TIN513050BT, TIN513051BT

Address ThermoFisher Scientific Australia Pty Ltd

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Emergency Tel. CHEMTREC®

03 9757 4559 or +613 9757 4559

Telephone / Fax Numbers Tel: 1300 735 292 Fax: 1800 067 639

ANZinfo@thermofisher.com

E-mail address

Recommended Use Laboratory chemicals.

Uses advised against This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product does not contain any substance(s) listed on the voluntary National

Code of Practice for Chemicals of Security Concern.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

Physical hazards

No hazards identified

Health hazards

Serious Eye Damage/Eye Irritation Category 1

Environmental hazards

No hazards identified

Label Elements



Signal Word **Danger**

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Hazard Statements

H318 - Causes serious eye damage

Precautionary Statements

P280 - Wear eye protection/ face protection

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

P310 - Immediately call a POISON CENTER or doctor

Other information

No information available

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

| Component | CAS No | Weight % |
|----------------------|-----------|----------|
| Sodium metabisulfite | 7681-57-4 | 10-20 |

Section 4 - First Aid Measures

Inhalation Remove to fresh air. Consult a physician if necessary.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

General Advice Take off contaminated clothing and shoes immediately.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Burning. Vomiting. May cause allergic skin reaction. Sickness.

Notes to Physician Sulphites are strong sensitizers.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

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

Extinguishing media which must not be used for safety reasons

No information available.

Hazardous Decomposition Products

Sulfur dioxide.

Decomposition Temperature

> 150°C

Specific Hazards Arising from the Chemical

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Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation.

Advice for emergency responders

Put on breathing apparatus. Protective equipment: see section 8.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods for Containment and Clean Up

Clean-up methods - small spillage

Provide adequate ventilation. Take up mechanically and collect in suitable container for disposal. Dispose of waste product or used containers according to local regulations.

Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Ensure adequate ventilation.

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)] Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

| Component | Australia | New Zealand WEL | ACGIH TLV | The United Kingdom | Germany |
|----------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|---------|
| Sodium metabisulfite | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | STEL: 15 mg/m ³ 15 min | |
| | | | | TWA: 5 mg/m ³ 8 hr | |

Biological limit values

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This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Exposure Controls Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | AUS/NZ Standard | Glove comments |
|-------------------|-------------------|-----------------|-----------------|-----------------------|
| Disposable gloves | See manufacturers | - | AS/NZS 2161 | (minimum requirement) |
| - | recommendations | | | |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Physical State Tablets

Odor Slight

Odor ThresholdNo data availablepH4.7 @ 20°CMelting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeNo data available

Flash Point No data available Method - No information available

Evaporation Rate No data available Flammability (solid,gas) No information available

Explosion Limits No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density 2.5 g/cm3 @20°C

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Bulk DensityNo data availableWater SolubilityNo information availableSolubility in other solventsNo information available

Partition Coefficient (n-octanol/water)

Component log Pow Sodium metabisulfite -3.7

Autoignition Temperature No data available

Decomposition Temperature > 150°C

Viscosity

Explosive Properties

Oxidizing Properties

No data available
No information available
No information available

Other information

Section 10 - Stability and Reactivity

ReactivityContact with acids releases toxic gases; Reacts with acids releasing sulphur dioxide.

Reacts with oxidizing agents

Stability Stable under normal conditions.

Conditions to AvoidTo avoid thermal decomposition, do not overheat.

Incompatible Materials None known. aluminium

Hazardous Decomposition Products Sulfur dioxide.

Hazardous Polymerization No information available.

Section 11 - Toxicological Information

Information on Toxicological Effects

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------|-------------------------|-------------------------|-----------------|
| Sodium metabisulfite | LD50 = 1310 mg/kg (Rat) | LD50 > 2000 mg/kg (Rat) | |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

RespiratoryNo data available
Skin
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

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(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available

delayed

Section 12 - Ecological Information

Ecotoxicity effectsContains no substances known to be hazardous to the environment or that are not

degradable in waste water treatment plants.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|----------------------|---|------------|--|---------------------|
| Sodium metabisulfite | LC50: = 32 mg/L, 96h static (Lepomis macrochirus) | | EC50: = 40 mg/L, 96h (Desmodesmus subspicatus) EC50: = 48 mg/L, 72h (Desmodesmus subspicatus) | EC50 = 56 mg/L 17 h |

Persistence and Degradability Bioaccumulative Potential

No information available No information available

| Component | log Pow | Bioconcentration factor (BCF) | | | | |
|---------------------------------|---|-------------------------------|--|--|--|--|
| Sodium metabisulfite | -3.7 | No data available | | | | |
| Mobility | No information available. | | | | | |
| Endocrine Disruptor Information | This product does not contain any known or suspected endocrine disruptors | | | | | |
| Persistent Organic Pollutant | This product does not contain any known or suspected substance | | | | | |
| Ozone Depletion Potential | This product does not contain any known or suspected substance | | | | | |

Section 13 - Disposal Considerations

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

empty containers.

Other Information Chemical wastes should be disposed through a licensed commercial waste collection

service.

Section 14 - Transport Information

IMDG/IMO Not regulated

ADG Not regulated

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IATA Not regulated

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

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

National Regulations Australia

See section 8 for national exposure control parameters.

Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

| Component | Standard for the Uniform Scheduling of Medicines and Poisons |
|----------------------------------|--|
| Sodium metabisulfite - 7681-57-4 | Schedule 5 listed - when packed for domestic use except in preparations containing <=10% of Sodium |
| | metabisulphite |

Australian Industrial Chemicals Introduction Scheme (AICIS)

| Component | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|----------------------------------|---|------------------------|
| Sodium metabisulfite - 7681-57-4 | Present | - |

Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Chemicals of Security Concern

This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

National pollutant inventory Not applicable

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

International Inventories

| Component | AICS | NZIoC | EINECS | ELINCS | TSCA | DSL | NDSL | PICCS | ENCS | ISHL | IECSC | KECL |
|----------------------|------|-------|-----------|--------|------|-----|-------------|-------|-------------|------|-------|----------|
| Sodium metabisulfite | Х | Х | 231-673-0 | - | X | Χ | - | Х | - | Х | Х | KE-12701 |

Legend: X - Listed. '-' - Not Listed. KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

International Regulations

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Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal Not applicable.

| Component | CAS No | OECD HPV | Restriction of | Seveso III Directive | Seveso III Directive |
|----------------------|-----------|----------|-------------------|-----------------------|-----------------------|
| | | | Hazardous | (2012/18/EC) - | (2012/18/EC) - |
| | | | Substances (RoHS) | Qualifying Quantities | Qualifying Quantities |
| | | | | for Major Accident | for Safety Report |
| | | | | Notification | Requirements |
| Sodium metabisulfite | 7681-57-4 | Listed | Not applicable | Not applicable | Not applicable |

Authorisation/Restrictions according to EU REACH

| Component | . , , | REACH (1907/2006) - Annex XVII - | , , |
|----------------------|--|--|---------------------------------|
| | Substances Subject to Authorization | Restrictions on Certain Dangerous Substances | List of Substances of Very High |
| | | | Concern (SVHC) |
| Sodium metabisulfite | - | Use restricted. See item 75. | - |
| | | (see link for restriction details) | |

https://echa.europa.eu/substances-restricted-under-reach

Section 16 - Other Information

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association**

MARPOL - International Convention for the Prevention of Pollution from Ships

NZS 5433:2020 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code ADG - Australian Code for the Transport of Dangerous Goods by Road

and Rail

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50%

ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 14-Jul-2023

Revision Summary Update to GHS format.

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

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