# SAFETY DATA SHEET

**ULTRASET 2 IN 1**
**Revision Number** 2.02

**Revision date** 22-Aug-2024
**Supersedes date** 22-Aug-2024

## Section 1: Identification: Product identifier and chemical identity

**Product identifier**

**Product Name** ULTRASET 2 IN 1

**Product Code(s)**
30608841
30608841; 30628311

**Other means of identification**

**Pure substance/mixture** Mixture

**Recommended use of the chemical and restrictions on use**

**Recommended use** Adhesives

**Uses advised against** No information available.

**Details of manufacturer or importer**

**Supplier**
Bostik Australia Pty Ltd
51-71 High Street,
Thomastown Victoria
Australia
Tel: 613 9279-9333
Fax: 613 9279-9342

**ABN:** 79 003 893 838

**Manufacturer**
Bostik Australia Pty Ltd
51-71 High Street,
Thomastown Victoria
Australia
Tel: 613 9279-9333
Fax: 613 9279-9342

**ABN:** 79 003 893 838

**E-mail address** au-bostik-sds@bostik.com

**Emergency telephone number**

Emergency telephone number 24-hr Emergency: 1800 033 111

## Section 2: Hazard(s) identification

**GHS Classification**

| | |
|---|---|
| **Skin sensitization** | Category 1 - (H317) |

**Label elements**

Exclamation mark

**Signal word**

WARNING

**Hazard statements**
H317 - May cause an allergic skin reaction

**Precautionary Statements - Prevention**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Other hazards which do not result in classification**
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

**Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)**
No poisons schedule number allocated

## Section 3: Composition and information on ingredients, in accordance with Schedule 8

**Substance**

Not applicable

**Mixture**

| Chemical name | CAS No. | Weight-% |
|---|---|---|
| Trimethoxyvinylsilane | 2768-02-7 | 1 - 5 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | 0.1 - 1 |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- | 22673-19-4 | 0.1 - 1 |
| Non-hazardous ingredients | Proprietary | Balance |

## Section 4: First aid measures

**Emergency telephone number** Poisons Information Center, Australia: 13 11 26
Poisons Information Center, New Zealand: 0800 764 766

**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** Small amounts of toxic methanol are released by hydrolysis. Call a physician immediately. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water.

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

**Symptoms** None known.

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

**Note to physicians** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. Treat symptomatically.

## Section 5: Firefighting measures

**Suitable Extinguishing Media**

**Suitable extinguishing media** Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** Full water jet.

**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous combustion products** Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Silicon dioxide.

**Special protective actions for fire-fighters**

**Special protective equipment and precautions for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: Handling and storage, including how the chemical may be safely used

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and after

work.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Keep away from food, drink and animal feeding stuffs.

**Recommended storage temperature** Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

## Section 8: Exposure controls and personal protection

**Control parameters**

**Exposure Limits** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

| Chemical name | Australia |
|---|---|
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-<br>22673-19-4 | TWA: 0.1 mg/m³<br>STEL: 0.2 mg/m³ |

*OEL as published by Safe Work Australia*

**Appropriate engineering controls**

**Engineering controls** Showers, eyewash stations, and ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Long sleeved clothing.

**Hand protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Respiratory protection** Organic gases and vapors filter conforming to EN 14387. White. Brown.

**Environmental exposure controls** No information available.

## Section 9: Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance** Thixotropic Paste
**Color** Off-white
**Odor** Fruity
**Odor threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | No data available | |
| **pH (as aqueous solution)** | No data available | |
| **Melting point / freezing point** | No data available | |
| **Initial boiling point and boiling range** | No data available | |
| **Flash point** | 200 °C | |

| | |
|---|---|
| **Evaporation rate** | No data available |
| **Flammability** | No data available |
| **Flammability Limit in Air** | |
| **Upper flammability or explosive limits** | No data available |
| **Lower flammability or explosive limits** | No data available |
| **Vapor pressure** | No data available |
| **Relative vapor density** | No data available |
| **Relative density** | No data available |
| **Water solubility** | Reacts with water |
| **Solubility(ies)** | No data available |
| **Partition coefficient** | No data available |
| **Autoignition temperature** | No data available |
| **Decomposition temperature** | No data available |
| **Kinematic viscosity** | No data available |
| **Dynamic viscosity** | 150000 - 600000 mPa s |
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |

**Other information**

| | |
|---|---|
| **Solid content (%)** | approx 97 |
| **Density** | 1.71 g/cm³ |
| **VOC content** | No information available |

## Section 10: Stability and reactivity

**Reactivity**

**Reactivity** Product cures with moisture.

**Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

| | |
|---|---|
| **Sensitivity to mechanical impact** | None. |
| **Sensitivity to static discharge** | None. |

**Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid**

**Conditions to avoid** Product cures with moisture. Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products**

**Hazardous decomposition products** Carbon oxides. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Information on likely routes of exposure**

**Product Information**

| | |
|---|---|
| **Inhalation** | Based on available data, the classification criteria are not met. |
| **Eye contact** | Based on available data, the classification criteria are not met. |
| **Skin contact** | May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). |
| **Ingestion** | Based on available data, the classification criteria are not met. |
| **Symptoms** | Itching. Rashes. Hives. |

**Numerical measures of toxicity - Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document**

| | |
|---|---|
| **ATEmix (oral)** | >5000 |
| **ATEmix (dermal)** | 13,417.40 |
| **ATEmix (inhalation-gas)** | >20000 |
| **ATEmix (inhalation-vapor)** | 864.80 |
| **ATEmix (inhalation-dust/mist)** | >5 |

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Trimethoxyvinylsilane | LD50 = 7120 -7236 mg/kg (Rattus) OECD 401 | = 3540 mg/kg (Oryctolagus cuniculus) | LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | =2295 mg/kg (Rattus) | >2000 mg/Kg (Rattus) | LC50 4H (Aerosol)1.5 - 2.44 mg/L air |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- | LD50 = 1864 mg/kg (Rattus) OECD 401 | LD50 > 2000 mg/kg (Rattus) OECD 402 | LC50 4hr: 16.8 mg/l (Rattus) (OECD TG 403) |

*See section 16 for terms and abbreviations*

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

| Component Information | | | | | |
|---|---|---|---|---|---|
| Trimethoxyvinylsilane (2768-02-7) | | | | | |
| **Method** | **Species** | **Exposure route** | **Effective dose** | **Exposure time** | **Results** |
| | Rabbit | Dermal | 0.5 mL | 24 hours | Non-irritant |

| N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3) | | | | | |
|---|---|---|---|---|---|
| **Method** | **Species** | **Exposure route** | **Effective dose** | **Exposure time** | **Results** |
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit | | | | Mild skin irritant |

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

| Component Information |
|---|
| Trimethoxyvinylsilane (2768-02-7) |

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | 24 hours | Non-irritant |

| N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3) | | | | | |
|---|---|---|---|---|---|
| **Method** | **Species** | **Exposure route** | **Effective dose** | **Exposure time** | **Results** |
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | | Eye Damage |

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

| Component Information | | |
|---|---|---|
| Trimethoxyvinylsilane (2768-02-7) | | |
| **Method** | **Species** | **Results** |
| OECD Test No. 471: Bacterial Reverse Mutation Test | in vitro | Not mutagenic |

| N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3) | | |
|---|---|---|
| **Method** | **Species** | **Results** |
| OECD Test No. 471: Bacterial Reverse Mutation Test | Mammalian cells in vitro | Negative |
| OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes | Mammalian cells in vitro | Negative |

| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4) | | |
|---|---|---|
| **Method** | **Species** | **Results** |
| OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes | in vitro | Mutagenic |

**Carcinogenicity** As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Legend
**IARC (International Agency for Research on Cancer)**
*Group 1 - Carcinogenic to Humans*

**Reproductive toxicity** Based on available data, the classification criteria are not met.

| **Component Information** | | |
|---|---|---|
| **Trimethoxyvinylsilane (2768-02-7)** | | |
| **Method** | **Species** | **Results** |
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | Not Classifiable |

| **N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)** | | |
|---|---|---|
| **Method** | **Species** | **Results** |

| | | |
|---|---|---|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat<br>Oral | NOAEL >500 mg/Kg |

| **Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4)** | | |
|---|---|---|
| **Method** | **Species** | **Results** |
| OECD Test No. 414: Prenatal Development Toxicity Study | Rat<br>Oral<br>in vivo | Read-across. Reproductive toxicant.<br>NOAEL: 1 mg/kg bw/day |
| OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test | Rat<br>Oral<br>in vivo | Read-across Reproductive toxicant<br>NOAEL 1.9-2.3 mg/kg bw/day |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Classification based on data available for ingredients.

| Component Information | | | | | |
|---|---|---|---|---|---|
| Trimethoxyvinylsilane (2768-02-7) | | | | | |
| **Method** | **Species** | **Exposure route** | **Effective dose** | **Exposure time** | **Results** |
| OECD Test No. 413: Subchronic Inhalation Toxicity: 90-day Study | Rat | Inhalation vapor | | 90 days | 0.058 NOAEL |

| N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3) | | | | | |
|---|---|---|---|---|---|
| **Method** | **Species** | **Exposure route** | **Effective dose** | **Exposure time** | **Results** |
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | Subacute oral toxicity gavage | | 28 days | NOAEL >500 mg/kg |

**Aspiration hazard** Based on available data, the classification criteria are not met.

## Section 12: Ecological information

**Ecotoxicity**

**Aquatic ecotoxicity**

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Trimethoxyvinylsilane 2768-02-7 | EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3 | LC50 (96h) = 191 mg/l (Oncorhynchus mykiss) | - | EC50(48hr) 168.7mg/l (Daphnia magna) |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | - | LC50 (96H) =597 mg/L (Danio rerio)Semi-static | - | EC50 (48h) =81mg/L Daphnia magna Static |
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-22673-19-4 | >2.0 mg/l | >2.0 mg/l | - | EC50 0.0036 mg/l 48Hr (Daphnia magna) |

**Persistence and degradability**

**Persistence and degradability** No information available.

| Component Information | | | |
|---|---|---|---|
| Trimethoxyvinylsilane (2768-02-7) | | | |
| **Method** | **Exposure time** | **Value** | **Results** |
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days | BOD | 51 % Not readily biodegradable |

**Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Trimethoxyvinylsilane<br>2768-02-7 | 1.1 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | -0.3 |

**Mobility**

**Mobility in soil** No information available.

**Mobility** No information available.

**Other adverse effects**

**Other adverse effects** No information available.

## Section 13: Disposal considerations

**Disposal methods**

**Waste from residues/unused products** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Contaminated packaging** Handle contaminated packages in the same way as the product itself.

## Section 14: Transport information

**ADG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
No information available

## 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 Uniform Scheduling of Medicines and Poisons (SUSMP)**
No poisons schedule number allocated

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

**National pollutant inventory**
Subject to reporting requirement

| Chemical name | National pollutant inventory |
|---|---|
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-<br>22673-19-4 | 10 tonne/yr Threshold category 1 |

**International Inventories**

| | |
|---|---|
| **AIIC** | Complies |
| **NZIoC** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL** | Complies |
| **PICCS** | Not Listed |

**Legend:**
**AIIC** - Australian Inventory of Industrial Chemicals
**NZIoC** - New Zealand Inventory of Chemicals
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing Chemicals Inventory
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**Europe**
**Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)**

**SVHC: Substances of Very High Concern for Authorization:**
This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59) >=0.1%

| Chemical name | SVHC candidates |
|---|---|
| Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-<br>22673-19-4 | X |

**Directive 2011/65/EU (EU RoHS 2), as amended by the Delegated Directive (EU) 2015/863 (EU RoHS 3)**
This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB),

Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

## Section 16: Any other relevant information

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 22-Aug-2024

**Revision Note**
***Indicates updated data since last publication.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| C | Carcinogen | | |

**Section 11: TOXICOLOGICAL INFORMATION**
LD50 (lethal dose)
**Section 12: Ecological information**
EC50 (effective concentration)

**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**