# SAFETY DATA SHEET

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## 1. Chemical and company identification

**Name of chemical (Product name)** **VINNOLIT SA 1062/7 / VINNOLIT SA 1062/7 GreenVin / VINNOLIT SA 1062/7 GreenVin bio-attributed**

**Supplier's company name, address and phone number**

| | |
|---|---|
| **Company Name** | Westlake Vinnolit GmbH & Co. KG |
| **Address** | Carl-Zeiss-Ring 25<br>Ismaning 85737 Germany |
| **Telephone** | +49 89-96-103-0 |
| **E-mail** | sds@westlake.com |
| **Website** | www.westlakevinnolit.com |
| **Emergency phone number (Japan)** | +65 3158 1074 |

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

**Intended use** Industrial Application.

## 2. Hazards identification

**GHS classification**

The product is not classified according to GHS.

**GHS label elements**

**Pictograms** None.

**Signal words** None.

**Hazard statement** The substance does not meet the criteria for classification.

**Precautionary statement**

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Main symptoms and emergency overview**

**Main symptoms** Direct contact with eyes may cause temporary irritation.

**Emergency overview** May form combustible dust concentrations in air.

## 3. Composition/information on ingredients

**Substance or mixture** Substance

| | | Gazette notification | | |
|---|---|---|---|---|
| **Chemical name or generic name** | **CAS Number** | **ENCS no.** | **ISHL no.** | **Concentration (%)** |
| Sodium nitrite | 7632-00-0 | (1)-483 | (1)-483 | <0.0010 |

**Chemical formula** H-N-O2.Na (7632-00-0)

## 4. First aid measures

**If inhaled** Move to fresh air. Call a physician if symptoms develop or persist.

**If on skin** Wash off with soap and water. Get medical attention if irritation develops and persists.

**If in eyes** Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

**If swallowed** Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed** Dusts may irritate the respiratory tract, skin and eyes.

**Protection of first-aid responders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Notes to physician** Treat symptomatically.

## 5. Fire-fighting measures

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|---|---|
| **Extinguishing media** | Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. |
| **Extinguishing media to avoid** | Do not use water jet as an extinguisher, as this will spread the fire. |
| **Specific hazards** | Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed. |
| **Special fire fighting procedures** | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. |
| **Protection of fire-fighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **General fire hazards** | May form combustible dust concentrations in air. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |
| **Hazardous combustion products** | Carbon monoxide. Hydrogen chloride. |

## 6. Accidental release measures

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| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| **Environmental precautions** | Avoid discharge into drains, water courses or onto the ground. |
| **Methods and materials for containment and cleaning up** | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.<br><br>Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.<br><br>Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. The product is insoluble in water. |

## 7. Handling and storage

**Handling**

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|---|---|
| **Technical measures (e.g. Local and general ventilation)** | Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Explosion-proof general and local exhaust ventilation. |
| **Safe handling advice** | Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS. |
| **Contact avoidance measures** | For further information, please refer to section 10 of the SDS. |
| **Hygiene measures** | When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

**Storage**

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| **Safe storage conditions** | Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). |
| **Safe packaging materials** | Store in original tightly closed container. |

## 8. Exposure controls/personal protection

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| **Control parameters** | Follow standard monitoring procedures. |
| **Occupational exposure limits** | No exposure limits noted for ingredient(s). |

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|---|---|
| **Engineering measures** | Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. |
| **Personal protective equipment** | |
| **Respiratory protection** | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. |
| **Hand protection** | Wear appropriate chemical resistant gloves. |
| **Eye protection** | Wear safety glasses with side shields (or goggles). |
| **Skin and body protection** | Wear suitable protective clothing. |

## 9. Physical and chemical properties

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| **Physical state** | Solid. |
| **Form** | Powder. |
| **Color** | White |
| **Odor** | Odorless. |
| **Melting point/freezing point** | Not available. |
| **Boiling point, initial boiling point, and boiling range** | Not available. |
| **Combustibility** | Not available. |
| **Lower and upper explosion limit / flammability limit** | |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Flash point** | Not applicable |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | >212 °F (>100 °C) |
| **pH** | Not applicable. Insoluble in water. |
| **Kinematic viscosity** | Not applicable |
| **Solubility(ies)** | |
| **Solubility (water)** | Insoluble |
| **Partition coefficient (n-octanol/water) (log value)** | Not available. |
| **Vapor pressure** | Not available. |
| **Density and/or relative density** | |
| **Density** | 1.40 g/cm3 DIN 53479 |
| **Relative density** | Not available. |
| **Vapor density** | Not available. |
| **Particle characteristics** | |
| **Particle size distribution** | 30 µm +/-5 D50 |
| **Other information** | |
| **Dust explosion properties** | |
| **St class** | 1 Weak explosion. |
| **Explosive properties** | Not explosive. |
| **Oxidizing properties** | Not oxidizing. |
| **Viscosity (Coefficient of viscosity)** | Not applicable |

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Keep away from heat, sparks and open flame. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Minimize dust generation and accumulation.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

| Components | Species | Test Results |
|---|---|---|
| Sodium nitrite (CAS 7632-00-0) | | |
| **Acute** | | |
| **Inhalation** | | |
| LC50 | Rat | 5.5 mg/l, 4 Hours |

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Sodium nitrite (CAS 7632-00-0) 2A Probably carcinogenic to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicological data**

| Components | | Species | Test Results |
|---|---|---|---|
| Sodium nitrite (CAS 7632-00-0) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Greasyback shrimp (Metapenaeus ensis) | 16.14 - 26.61 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0.13 - 0.26 mg/l, 96 hours |

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** No data is available on the degradability of this substance.

**Bioaccumulation**

**Mobility in soil** The product is immiscible with water and will spread on the water surface.

**Hazardous to the ozone layer** No data available.

**Other hazardous effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

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|---|---|
| **Residual waste** | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. |
| **Contaminated packaging** | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| **Local disposal regulations** | Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste. |

## 14. Transport information

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

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|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |
| **National regulations** | Follow regulation in section 15 for domestic transportation. |

## 15. Regulatory information

**Industrial Safety and Health Act**

**Notifiable substances (SDS and Risk Assessment) (Ordinance No, Concentration, Enforcement date)**

| | | |
|---|---|---|
| Sodium nitrite | Ordinance No. 36 | 0.0007 % |

**Labeling substances**

| | | |
|---|---|---|
| Sodium nitrite | Ordinance No. 36 | 0.0007 % |

**Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)**

Not regulated.

**Skin and eye damaging substances (Enforcement Rule Article 594-2)**

Not applicable.

**Poisonous and Deleterious Substances Control Act**

**Specified poisonous substances**

Not regulated.

**Poisonous substances**

Not regulated.

**Deleterious substances**

Not regulated.

**Act on the Regulation of Manufacture and Evaluation of Chemical Substances**

**Class I specified chemical substances**

Not regulated.

**Class II specified chemical substances**

Not regulated.

**Monitoring chemical substances**

Not regulated.

**Priority Assessment Chemical Substances (PACs)**

Not regulated.

**Reporting Exempted Substances**

Not regulated.

**Law concerning Pollutant Release and Transfer Register from April 1, 2023**

**Specified class 1 substances (substance name, control number and content)**

Not regulated.

**Class 1 substances (substance name, control number and content)**

Not regulated.

**Class 2 substances (substance name, control number and content)**

Not regulated.

| | |
|---|---|
| **Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule** | Not regulated. |
| **Air Law, Enforcement Rule** | Not regulated. |

**Explosives Control Act**

Not regulated.

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

**Bibliography**

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2019
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
JIS Z 7252:2019 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”
JIS Z 7253:2019 Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS)
National Toxicology Program (NTP) Report on Carcinogens

**Further information**

Refer to:
OSHA 3371-08 2009, Hazard Communication Guidance for Combustible Dusts
NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids

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