

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/29/2022

Version No: 8.02

Reviewed on 07/29/2022

1 Identification**Product identifier****Trade name:**
SONGNOX® 1035**SONGNOX® 1035 PW, SONGNOX® 1035 FF****CAS Number:**

41484-35-9

EC number:

255-392-8

Recommended use:Antioxidant
Plastic additive**Restrictions on use:** Uses not specified**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Songwon Industrial Co., Ltd.
83, Jangsaengpo-ro, Nam-gu, Ulsan, Korea
Tel: +82 (0)52-273-9841
Fax: +82 (0)52-272-3528
Email: sds@songwon.comSongwon International AG
Walzmühlestrasse 48
CH-8500 Frauenfeld
Tel: +41 (0)52 635 00 00
Fax: +41 (0)52 635 00 01
Email: sds@songwon.com**Emergency telephone number:**North East Asia / South East Asia: Call Songwon Ind. Tel: +82 (0)52-273-9841
Europe / Middle East / India / Africa: Call BIG Tel: +32 (0)14-584545
Americas: Call CHEMTREC Day or Night DOMESTIC NORTH AMERICA 1-800-424-9300
INTERNATIONAL, CALL USA 703-527-3887 (collect calls accepted)**2 Hazard(s) identification****Classification of the substance or mixture**

Combustible Dust May form combustible dust concentrations in the air.

Additional information:

Granular or free flow product grades may form combustible dust concentrations in air if processing activities significantly reduce the particle size (e.g. mechanical or pneumatic conveying, grinding, pulverizing).

The powder grades of this product may form combustible dust concentrations in air.

Label elements**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms Void**Signal word** Warning**Hazard statements**

May form combustible dust concentrations in the air.

Additional information:

Granular or free flow product grades may form combustible dust concentrations in air if processing activities significantly reduce the particle size (e.g. mechanical or pneumatic conveying, grinding,

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pulverizing).

The powder grades of this product may form combustible dust concentrations in air.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**
Combustible dust hazard for products supplied in powder form or if converted or reduced to small particles during further processing, handling, or by other means.
- **HMIS ratings (scale 0 - 4)**
Combustible dust hazard for products supplied in powder form if converted or reduced to small particles during further processing, handling, or by other means.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** No
- **vPvB:** No

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
41484-35-9 thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate]
- **Identification number(s)**
- **EC number:** 255-392-8

4 First-aid measures

- **Description of first aid measures**
- **General information:**
No special measures required.
If symptoms persist consult doctor.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:** Rinse mouth.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide

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Carbon dioxide

Sulfur oxides (SOx)

· **Advice for firefighters**· **Protective equipment:** Wear self-contained respiratory protective device.· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear protective clothing.

Avoid formation of dust.

Keep away from ignition sources.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.· **Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the collected material according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage· **Handling:**· **Precautions for safe handling**

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:**

Dust can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.· **Information about storage in one common storage facility:** Store away from oxidizing agents.· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **Specific end use(s)** No further relevant information available.*** 8 Exposure controls/personal protection**· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

PEL: 15* 5** mg/m³

* total dust **respirable fraction

REL: 10* 5** mg/m³

* total dust **respirable fraction

TLV: 10 mg/m³

Dust Value

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**

Protective gloves and protective skin cream

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment** No further relevant information available.

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Solid in various forms

Color: Whitish

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: 63 - 68 °C (145.4 - 154.4 °F)

Boiling point/Boiling range: Not applicable.

· **Flash point:** Not determined.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/dust mixtures are possible.

· **Explosion limits:**

Lower: Not applicable.

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· Upper:	Not applicable.
· Oxidizing properties	No
· Vapor pressure at 20 °C (68 °F):	0 hPa
· Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	10.36 log Pow (QSAR °C, QSAR)
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	> 5000 mg/kg (Rat) (OECD Guideline 401)
Dermal	LD50	> 2000 mg/kg (Rat) (OECD Guideline 402) Read-across

- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

LC50 (96h) (static)	> 57 mg/L (Fish) (OECD Guideline 203, Danio rerio)
ErC50 (72h) (static)	> 100 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus) nominal
EC50 (48h) (static)	> 100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
NOEC (21d)	≥ 10 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna) nominal No effects were seen below the LOQ (Limit of Quantity)
NOEC (72h) (static)	100 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus) nominal
IC50 (3h) (static)	> 100 mg/L (Bacteria) (OECD Guideline 209, activated sludge) nominal

- **Persistence and degradability**

> 121 - < 532 % (25°C, OECD Guideline 305C)

Not readily biodegradable

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** 8.506 log Koc (QSAR, MCI Method)

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Must be specially treated adhering to official regulations.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT, ADR/RID/ADN, IMDG, IATA** Void

- **UN proper shipping name**

- **DOT, ADR/RID/ADN, IMDG, IATA** Void

- **Transport hazard class(es)**

- **DOT, ADR/RID/ADN, IMDG, IATA**
- **Class** Void

- **Packing group**

- **DOT, ADR/RID/ADN, IMDG, IATA** Void

- **Environmental hazards:**

- **Marine pollutant:** No

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· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **SARA**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act) Inventory:** ACTIVE
- **Hazardous Air Pollutants** Substance is not listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **New Jersey Right-to-Know List:** Substance is not listed.
- **New Jersey Special Hazardous Substance List:** Substance is not listed.
- **Pennsylvania Right-to-Know List:** Substance is not listed.
- **Pennsylvania Special Hazardous Substance List:** Substance is not listed.
- **Carcinogenicity categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

*** 16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:**
Chemservice S.A.
13, Fausermillen
L-6689 Mertert, Luxembourg
Tel.: +352 270776-1
Fax: +352 270776-75
Email: sds@chemservice-group.com
- **Contact:**
- **Date of preparation / last revision** 07/29/2022 / 8.01
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN: United Nations (also UNO: United Nations Organization)
NOEC: No Observed Effect Concentration

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OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

*** Data compared to the previous version altered.**

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