# **SAFETY DATA SHEETS**

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 17, 2017

Revision Date: Aug 17, 2017

### 1.Identification

### 1.1GHS Product identifier

Product name	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)
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#### 1.2Other means of identification

Product number	-
Other names	Antioxidant Irganox 1010

#### 1.3Recommended use of the chemical and restrictions on use

Identified uses	For industry use only. Preservatives and Antioxidants
Uses advised against	no data available

### 2.Hazard identification

### 2.1 Classification of the substance or mixture

Not classified.

### 2.2GHS label elements, including precautionary statements

Pictogram(s)	No symbol.
Signal word	No signal word.
Hazard statement(s)	none
Precautionary statement(s)	

Prevention	none
Response	none
Storage	none
Disposal	none

### 2.3Other hazards which do not result in classification

none

# 3.Composition/information on ingredients

#### 3.1Substances

Chemical name	Common names and synonyms	CAS nu mb er	EC nu mb er	Concen tration
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-h ydroxyphenyl)propionate)	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-h ydroxyphenyl)propionate)	6683-1 9-8	none	100%

# 4.First-aid measures

# 4.1Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest.

In case of skin contact

Rinse and then wash skin with water and soap.

In case of eye contact

Rinse with plenty of water (remove contact lenses if easily possible).

If swallowed

Rinse mouth.

# 4.2Most important symptoms/effects, acute and delayed

no data available

#### 4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

### 5.Fire-fighting measures

# 5.1Extinguishing media

Suitable extinguishing media

Use water spray, foam, powder, carbon dioxide.

#### 5.2Specific hazards arising from the chemical

no data available

#### 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6.Accidental release measures

### 6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2Environmental precautions

Remove all ignition sources. Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting.

### 6.3 Methods and materials for containment and cleaning up

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

### 7.Handling and storage

### 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2Conditions for safe storage, including any incompatibilities

Separated from strong oxidants, strong bases and strong acids.

#### 8.Exposure controls/personal protection

#### 8.1Control parameters

#### Occupational Exposure limit values

no data available

**Biological limit values** 

no data available

### 8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **8.3Individual protection measures, such as personal protective equipment (PPE)**

#### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

#### 9. Physical and chemical properties

Physical state	White to slightly yellowish crystalline powder
Colour	no data available
Odour	no data available
Melting point/ freezing point	115-118°C (dec.)
Boiling point or initial boiling point and boiling range	1005.8°C at 760 mmHg
Flammability	Combustible.
Lower and upper explosion limit / flammability limit	no data available
Flash point	247.3°C
Auto-ignition temperature	410°C
Decomposition	no data available

temperature	
рН	no data available
Kinematic viscosity	no data available
Solubility	in water: none
Partition coefficient n-octanol/water (log value)	23
Vapour pressure	negligible
Density and/or relative density	1.077 g/cm3
Relative vapour density	no data available
Particle characteristics	no data available

# 10.Stability and reactivity

### 10.1Reactivity

no data available

# 10.2Chemical stability

Stable under recommended storage conditions.

# 10.3Possibility of hazardous reactions

Dust explosion possible if in powder or granular form, mixed with air.

### 10.4Conditions to avoid

no data available

# 10.5Incompatible materials

no data available

# 10.6Hazardous decomposition products

no data available

# 11.Toxicological information

Acute toxicity

•	Oral: no data available
•	Inhalation: no data available
•	Dermal: no data available
	Skin corrosion/irritation
	no data available
	Serious eye damage/irritation
	no data available
	Respiratory or skin sensitization
	no data available
	Germ cell mutagenicity
	no data available
	Carcinogenicity
	no data available
	Reproductive toxicity
	no data available
	STOT-single exposure
	no data available
	STOT-repeated exposure
	no data available
	Aspiration hazard
	no data available
12.Ecol	ogical information
12.1To	xicity
•	Toxicity to fish: no data available
•	Toxicity to daphnia and other aquatic invertebrates: no data available
•	Toxicity to algae: no data available
•	Toxicity to microorganisms: no data available

# 12.2Persistence and degradability

no data available

# 12.3Bioaccumulative potential

no data available

# 12.4Mobility in soil

no data available

# 12.50ther adverse effects

no data available

# 13.Disposal considerations 13.1Disposal methods **Product** The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials. 14.Transport information 14.1UN Number ADR/RID: no data available IMDG: no data available IATA: no data available 14.2UN Proper Shipping Name ADR/RID: no data available IMDG: no data available IATA: no data available 14.3Transport hazard class(es) ADR/RID: no data available IMDG: no data available IATA: no data available 14.4Packing group, if applicable ADR/RID: no data available IMDG: no data available IATA: no data available 14.5Environmental hazards ADR/RID: no IMDG: no IATA: no

### 14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

#### 15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS num ber	EC num ber
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyp henyl)propionate)	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyp henyl)propionate)	6683-19 -8	none
European Inventor	y of Existing Commercial Chemical Substance	es (EINECS)	Listed.
	EC	Inventory	Listed.
United States Toxic Substances Control Act (TSCA) Inventory		Listed.	
	China Catalog of Hazardous chem	nicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)		Listed.	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)		Listed.	
Vietnam National Chemical Inventory		Listed.	
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)		Listed.	

### 16.Other information

#### Information on revision

Creation Date	Aug 17, 2017
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### 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

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.