

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/10/2014

Version No: 8

Reviewed on 06/10/2014

1 Identification

· *Product identifier*

· *Trade name:*

JADEWIN AN 1010

· *CAS Number:*

6683-19-8

· *EC number:*

229-722-6

· *Relevant identified uses of the substance or mixture and uses advised against*
No further relevant information available.

· *Application of the substance / the mixture*

Antioxidant

Plastic additive

· *Details of the supplier of the safety data sheet*

· *Manufacturer/Supplier:*

QINGDAO JADE NEW MATERIAL TECHNOLOGY CO.,LTD

Address: Room 411, Building2, No318 Longshui Road,
Licang District, Qingdao, Shandong Province , China.

Tel:+86 18561336360 Fax:4008892163 - 108245

· *Emergency telephone number:* +86 185 6133 6360

2 Hazard(s) identification

· *Classification of the substance or mixture*

The substance is not classified according to the Globally Harmonized System (GHS).

· *Label elements*

· *GHS label elements* Void

· *Hazard pictograms* Void

· *Signal word* Void

· *Hazard statements* Void

· *Classification system:*

· *NEPA ratings (scale 0 - 4)*



Health = 1

Fire = 1

Reactivity = 0

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- **HMIS ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** No
- **vPvB:** No

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
6683-19-8
Tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] methane
- **Identification number(s)**
- **EC number:** 229-722-6

4 First-aid measures

- **Description of first aid measures**
- **General information:** Take affected persons out of danger area and lay down.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult 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
Carbon dioxide
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*

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· **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 product to reach sewage system or any water course.

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

Pick up mechanically.

Dispose of the collected material according to regulations.

· **Reference to other sections**

No dangerous substances are released.

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

· **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.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

6683-19-8 pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

PEL 15* 5** mg/m³
* total dust **respirable fraction

REL 10* 5** mg/m³
* total dust **respirable fraction

TLV 10 mg/m³
Dust Value

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

PEL: 15* 5** mg/m³

* total dust **respirable fraction

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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:**

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**

Neoprene gloves

PVC gloves

Rubber gloves

· **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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Solid in various forms**Color:** White· **Odor:** Odorless· **Odour threshold:** Not determined.· **pH-value:** Not applicable.· **Change in condition****Melting point/Melting range:** 117.1 °C (243 °F) (capillary method)**Boiling point/Boiling range:** 281 °C (538 °F) (OECD Guideline 103)· **Flash point:** 297 °C (567 °F)· **Flammability (solid, gaseous):** Product is not flammable.· **Ignition temperature:** Not determined.· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:****Lower:** Not determined.**Upper:** Not determined.· **Oxidizing properties**

No

· **Vapor pressure at 20 °C (68 °F):** 1.3 E-7 hPa (1 E-5 mm Hg) (TGA)

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- | | |
|------------------------------------|--|
| · Density at 20 °C (68 °F): | 1.116 g/cm ³ (9.313 lbs/gal) (OECD Guideline 109) |
| · Relative density | Not determined. |
| · Vapour density | Not applicable. |
| · Evaporation rate | Not applicable. |

- | | |
|---|--------------|
| · Solubility in / Miscibility with Water at 20 °C (68 °F): | < 0.0001 g/L |
|---|--------------|

- | | |
|---|--------------------------|
| · Partition coefficient (n-octanol/water): | 23 (logPow) (calculated) |
|---|--------------------------|

- | | |
|---------------------|-----------------|
| · Viscosity: | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |

- | | |
|----------------------------|--|
| · Other information | No further relevant information available. |
|----------------------------|--|

10 Stability and reactivity

- **Reactivity**
- **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:**
 - Strong oxidizing agents
 - Strong acids and bases
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- | | |
|---|--|
| · LD/LC50 values that are relevant for classification: | |
|---|--|

Oral	LD50	> 5000 mg/kg (Rat) (OECD Guideline 423)
Dermal	LD50	> 3160 mg/kg (Rabbit) (no guideline followed)
Inhalative	LC50 (4h)	> 1951 mg/L (Rat) (OECD Guideline 403)
	NOAEL (repeated dose)	135 mg/kg bw/day (Rat) (OECD Guideline 453)

- **Primary irritant effect:**
 - on the skin:** No irritant effect.
 - on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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:**

EC50 (24h)	> 86 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)
EC50 (72h) (static)	> 100 mg/L (Algae) (Guideline 87/302/EEC, Desmodesmus subspicatus)
LC50 (96h)	> 100 mg/L (Fish) (OECD Guideline 203, Brachydanio rerio)
NOEC (72h) (static)	100 mg/L (Algae) (87/302/EEC)

- **Persistence and degradability**

Not readily biodegradable
< 10% (28d OECD Guideline 301B)

- **Bioaccumulative potential** Not worth-mentioning accumulation in organisms

- **Mobility in soil** 10 (logKoc) (QSAR)

- **Additional ecological information:**

- **General notes:** Generally not hazardous for water

- **Results of PBT and vPvB assessment**

- **PBT:** No

- **vPvB:** No

- **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, IMDG, IATA** Void

- **UN proper shipping name**

- **DOT, ADR, IMDG, IATA** Void

- **Transport hazard class(es)**

- **DOT, ADR, IMDG, IATA** Void
- **Class** Void

- **Packing group**

- **DOT, ADR, IMDG, IATA** Void

- **Environmental hazards:**

- **Marine pollutant:** No

- **Special precautions for user**

Not applicable.

- **Transport in bulk according to Annex II of**

MARPOL 73/78 and the IBC Code: Not applicable.

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- | | |
|--|--|
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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):** Substance is 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.
- **Carcinogenity categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **Chemical Inventories:**
 - Australia - AICS
 - Canada - DSL
 - EU - EINECS
 - China - IECSC
 - Japan - ENCS
 - New Zealand - NZIoC
 - Korea - ECL
 - USA - TSCA
 - Philippines - PICCS

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.

- **Date of preparation / last revision** 06/10/2014 / 7
- **Revision number and date:** 8 / 06/10/2014
- **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 Organization
 - 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)
 - PBT: persistent, bioaccumulative and toxic

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vPvB: very persistent and very bioaccumulative

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

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

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

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