Safety Data Sheet
acc. to OSHA HCS

Printing date 03/11/2014 *Version No: 10* *Reviewed on 03/11/2014*

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1 Identification

· **Product identifier**

· **Trade name:**

JADEWIN AN 1076

· **CAS Number:**
2082-79-3
· **EC number:**
218-216-0

· **Relevant identified uses of the substance or mixture and uses advised against**

· **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:**
· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 1
Reactivity = 0

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· **HMIS ratings (scale 0 - 4)**

HEALTH 1	Health = 1
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**
2082-79-3 Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate
methane
· **Identification number(s)**
· **EC number:** 218-216-0

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 (CO)
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**
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.

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8 Exposure controls/personal protection

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:** Not required.
· **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.

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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**
Butyl rubber, BR
Nitrile rubber, NBR
PVC 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*

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Solid in various forms* *Liquid*
Color:	*White*
· **Odor:**	*Odorless*
· **Odour threshold:**	*Not determined.*
· **pH-value:**	*Not applicable.*
· **Change in condition**	
Melting point/Melting range:	*51-52 °C (124-126 °F) (capillary method)*
Boiling point/Boiling range:	*323 °C (613 °F) (OECD Guideline 103)*
· **Flash point:**	*273 °C (523 °F)*
· **Flammability (solid, gaseous):**	*Product is not flammable.*
· **Ignition temperature:**	*340 °C (644 °F)*
· **Decomposition temperature:**	*> 350 °C (> 662 °F)*
· **Auto igniting:**	*Not determined.*
· **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):**	*2.53e-9 hPa (2e-7 mm Hg)*
· **Density at 20 °C (68 °F):**	*1.012 g/cm³ (8.445 lbs/gal) (OECD Guideline 109)*
· **Relative density**	*Not determined.*
· **Vapour density**	*Not applicable.*
· **Evaporation rate**	*Not applicable.*

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· **Solubility in / Miscibility with Water at 20 °C (68 °F):**	2.85e-6 g/l (OECD Guideline 105) Insoluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **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:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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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 401, Tif: RAIf (SPF) strain)
Dermal	LD50	>2000 mg/kg (Rat) (OECD Guideline 402, Tif: RAI F (SPF) strain)
Inhalative	LC50 (4h)	> 1.81 mg/L (Rat) (aerosol, OECD Guideline 403, Tif. RAI strain)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The substance is not subject to classification.

· **Carcinogenic categories**
· **IARC (International Agency for Research on Cancer)** Substance is not listed.
· **NTP (National Toxicology Program)** Substance is not listed.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
EC50 (24h) (static)	>100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)
EC50 (3h) (static)	>100 mg/L (Bacteria) (OECD Guideline 209, activated sludge, domestic)
EC50 (72h) (static)	> 30 mg/L (Algae) (EU Method C.3, Desmodesmus subspicatus)

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LC50 (96h) (static)	>100 mg/L (Fish) (OECD Guideline 203, Lepomis macrochirus)
NOEL (21d)	≥ 2 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna)

· **Persistence and degradability** The product is not readily, but potentially biodegradable.

· **Bioaccumulative potential**
Not worth-mentioning accumulation in organisms
< 210-1470 OECD 305C; 5,77 QSAR (BCF)

· **Mobility in soil** 8,57 (logKoc)

· **Ecotoxical effects:**

· **Remark:** Tested above the maximum solubility.

· **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** · **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 MARPOL73/78 and the IBC Code:**	Not applicable.
· **Transport/Additional information:**	Not dangerous according to the above specifications.
· **UN "Model Regulation":**	-

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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.

· **Cancerogenity 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.
· **OSHA-Ca (Occupational Safety & Health Administration)** 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** 03/11/2014 / 9

· **Revision number and date:** 10 / 03/11/2014

· **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
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
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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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.***