Material Safety Data Sheet
PIGMENT ORANGE 64

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name: PIGMENT ORANGE 64
Chemical Characterization: Benzimidazolone/monoazo
C.I. Pigment Orange 64
C. I. No.:12760
Company: Dongguan baoxu chemical technology., Ltd.
Address: Caijing Business Bldg Dongguan CN 523071
Emergency Health/Environmental Phone: 86 769 22821082

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification according EC Directive (67/548/EEC or 1999/45/EC, as amended)
Category of danger/Category Hazard symbol R - phrases

2.2. Label elements
Labelling in accordance with EC-Directives (67/548/EEC or 1999/45/EC, as amended)
hazard warning labelling not compulsory, Classification according to the calculation procedure of the

2.3. Other hazards
According to the present state of knowledge provided this product is handled correctly, there is no danger to
humans or the environment
Organic substances in powder form may have the potential to cause dust explosions.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Mixtures
Chemical characterization
C.I.PIGMENT ORANGE 64
4. FIRST AID MEASURES

4.1. Description of first aid measures

General information
Seek medical assistance if discomfort continues

After inhalation
Remove the casualty into fresh air and keep him calm.

After contact with skin
In case of contact with skin, clean with soap and water.

After contact with eyes
Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

After ingestion
If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
No symptoms known currently.

Hazards
No special measures needed.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment
Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
water spray jet

Extinguishing media that must not be used for safety reasons
foam

Full water jet
carbon dioxide
dry powder

5.2. Special hazards arising from the substance or mixture

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
Carbon dioxide (CO2)
Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for firefighting
Use self-contained breathing apparatus
6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear suitable personal protective equipment.
Avoid dust formation.
Keep away sources of ignition.

6.2. Environmental precautions
Do not allow entry to drains, water courses or soil.

6.3. Methods and material for containment and cleaning up
Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Damp spilled material with water and pick up mechanically. Transfer warning labels from original containers to containers where the material is collected.
When picked up, treat material as prescribed under heading "Disposal".

6.4. Reference to other sections
Additional information
Keep away sources of ignition, stop running engines, no smoking.
Moisten spilled material with water, cover with wet sand or wetted binder, then take up.
Information regarding Waste Disposal, see chapter 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling
When used and handled appropriately no special measures are needed
Avoid dust formation.

Hygiene measures
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Advice on protection against fire and explosion
Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.
Keep away from sources of ignition.
Dust can form an explosive mixture with air.
Dust explosion class: ST1 Capable of dust explosion

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers
Keep in original packaging, tightly closed

Advice on storage compatibility
When used and handled as intended, none.
Do not store or transport together with foodstuffs

Further information on storage conditions
Keep container tightly closed and dry
Keep away from sources of ignition.
Protect from extreme heat and cold

Storage stability
If correctly stored: storage life > 12 months

7.3. Specific end use(s)
No further recommendations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
Exposure limit values
Exposure limit values are not available.

DNEL/DMEL values
DNEL/DMEL values are not available.

PNEC values
PNEC values are not available.

8.2. Exposure controls
General protective measures
Observe the usual precautions for handling chemicals.
Respiratory protection: Wear dust mask when handling large quantities
Hand protection: Nitrile rubber gloves.  
Minimum breakthrough time (glove): not determined  
Minimum thickness (glove): not determined  
Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements  
With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured.  
Because this glove is used only for mechanical protection, the minimum breakthrough time and thickness are not relevant to safety.

Eye protection: safety glasses

Body protection: working clothes

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: solid
Particle size: 5 μm  
Method: Laser diffraction with dispersion in dry air.

Colour: orange
Odour: not specified
Odour threshold: not available
pH value: not reasonable
Melting point (decomposition): not determined
Boiling point (decomposition): not determined
Flash point: Not applicable
Evaporation rate: Not applicable
Flammability:
Lower explosion limit: not tested.
Upper explosive limit: not tested.
Combustion number: BZ4 Spread of a glowing fire (20 °C)
Minimum ignition energy: 30 - 100 mJ  
with inductive electrical resistance

Burning rate:
Vapour pressure: Not applicable
Vapour density relative to air: not available
Relative Density: not available
Solubility in water: insoluble
Octanol/water partition coefficient (log Pow): Not applicable
Ignition temperature: not tested.
Self-ignition temperature: 300 °C
Method: VDI 2263 (Grewer)
Thermal decomposition: 300 - 330 °C (Heating rate: 3 K/min)
Method: DTA
Closed cup
Viscosity (dynamic): Not applicable
Viscosity (kinematic): Not applicable
Explosive properties: Explosive according to EU supply regulations: no data
Oxidizing properties: not tested.

9.2. Other information
Density: not tested.
Bulk density: not tested.

10. STABILITY AND REACTIVITY

10.1. Reactivity
See section 10.3. "Possibility of hazardous reactions"

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Risk of dust explosions.

10.4. Conditions to avoid
ignition
sparks
10.5. Incompatible materials
not known

10.6. Hazardous decomposition products
When handled and stored appropriately, no dangerous decomposition products are known

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Information related to the product itself:

Acute oral toxicity: LD50 > 2.000 mg/kg
The product has not been tested. The information is derived from the properties of the individual components.

Acute dermal toxicity: not available

Acute inhalation toxicity: not available

Irritant effect on skin: non-irritant
The product has not been tested. The information is derived from the properties of the individual components.

Irritant effect on eyes: non-irritant
The product has not been tested. The information is derived from the properties of the individual components.

Sensitization: non-sensitizing
The product has not been tested. The information is derived from the properties of the individual components.

Repeated dose toxicity: not available

Genetic toxicity in vitro: Test type: Ames test
Result: Negative

Assessment of mutagenicity: not available

Assessment of carcinogenicity: not available

Assessment of toxicity to reproduction: not available

Assessment of teratogenicity: not available

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Information related to the product itself:

Fish toxicity: not available
Daphnia toxicity : not available  
Algae toxicity : not available  
Bacteria toxicity : not available  
Toxicity to soil-dwelling organisms : not available  
Toxicity to terrestrial plants : not available  
Toxicity to other environmentally relevant organisms : not available  
Sediment toxicity : Source : not available

12.2. Persistence and degradability

Information related to the product itself:

Physico-chemical eliminability : not available

Photodegradation : not available

Biodegradability : This property is substance-specific and therefore cannot be given for the preparation.

Dissolved Organic carbon (DOC) : Not applicable

Chemical oxygen demand (COD) : Not applicable

Biochemical oxygen demand (BOD5) : Not applicable

12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation: Not applicable

12.4. Mobility in soil

Information related to the product itself:

Transport and distribution between environmental compartments : No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Behaviour in environmental compartments not available

12.5. Results of PBT and vPvB assessment Information related to the product itself:

No data available.

12.6. Other adverse effects
Information related to the product itself:
Additional ecotoxicological remarks

Do not allow to enter soil, waterways or waste water
The product has not been tested. The information is derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product
Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Uncleaned packaging
Packaging that cannot be cleaned should be disposed of as product waste

14. TRANSPORT INFORMATION

Section 14.1. to 14.5.

ADR not restricted
ADN not restricted
RID not restricted
IATA not restricted
IMDG not restricted

14.6. Special precautions for user
See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
(International Bulk Chemicals Code)
No transport as bulk according IBC - Code.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Other regulations
Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment
No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

16. OTHER INFORMATION

Observe national and local legal requirements

Text of the R-phrases assigned to the ingredients/components mentioned in section 3:

38 Irritating to skin.
41 Risk of serious damage to eyes.

List of the text of the hazard statements mentioned section 3 (H-phrases):

H315 Causes skin irritation.
H318 Causes serious eye damage.

Disclaimer
The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.

Change to the last edition
3rd edition of the MSDS for this product (25th July, 2014)