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# 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
Company	C. I. No.:12760 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 Dangerous Preparations Directive (1999/45/EC).

### 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

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## 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.
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## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media	water spray jet foam
Extinguishing media that must not be used for safety reasons	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 (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3. Advice for firefighters

Special protective equipment for firefighting	Use self-contained breathing apparatus
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## 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.

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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

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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

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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

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## 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:

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

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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
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### **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.
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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**



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**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

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