

## Material Safety Data Sheet

HIFIFAST YELLOW HF2G-C

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

|                                      |  |
|--------------------------------------|--|
| Product Name                         | HIFIFAST YELLOW HF2G-C   |
| Chemical Characterization            | Bisacetoacetarylde<br>C.I. Pigment Yellow 155<br>C. I. No.:200310  |
| Company                              | ANSHAN HIFICHEM Co., Ltd.<br>Address: No.8, 1st Bao An Road,<br>Teng Ao Industrial Park,<br>Anshan 114225, P. R. China |
| Emergency Health/Environmental Phone | 86 21 3100 7988  |

### 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)

The product does not require a hazard warning label in accordance with EC Directives

#### 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 YELLOW 155

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

|                         |  |
|-------------------------|--|
| General information     | Seek medical assistance if discomfort continues                          |
| After inhalation        | Remove from danger zone. Obtain medical advice.                          |
| After contact with skin | After contact with skin, wash immediately with plenty of water and soap. |
| After contact with eyes | Immediately rinse eyes with running water.                               |
| After ingestion         | If swallowed, seek medical advice immediately.                           |

### 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 dry powder foam |
| Extinguishing media that must not be used for safety reasons | No restrictions       |

### 5.2. Special hazards arising from the substance or mixture

carbon oxides  
nitrogen oxides

### 5.3. Advice for firefighters

|   |  |
|---|--|
| Special protective equipment for firefighting | Use self-contained breathing apparatus   |
| Further information                           | Cool container and metallic parts with a water spray jet<br>Set up threefold fire attack, use extinguishants singly or in combination, equip branchman and support team with respiratory protective equipment. |

## **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 discharge into the drains/surface waters/groundwater.

### **6.3. Methods and material for containment and cleaning up**

Take up mechanically. Dilute remainder with water and take up with absorbent material (eg sawdust, sand, universal binder)

### **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**

Keep container tightly closed.  
Keep container in a well-ventilated place.

#### **Hygiene measures**

Observe the usual precautions when handling chemicals.

#### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges.  
Avoid formation of dust.  
Keep away from sources of ignition.  
Observe the usual precautionary measures required for chemicals with dust explosive properties (Observe national regulations).

Dust explosion class : ST2 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 in a cool, well-ventilated place

### **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 : In case of dust formation, use a fine dust face mask.

Hand protection : Nitrile rubber gloves.

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   |
| Form :                          | powder  |
| Particle size :                 | 3 µm 50 %   |
| Colour :                        | yellow  |
| Odour :                         | not specified   |
| Odour threshold :               | not available   |
| pH value :                      | app. 7 (20 °C, 50 g/l)<br>Method : of an aqueous suspension |
| Melting point :                 | No melting point up to the decomposition temperature.       |
| Boiling point :                 | ( 1.013 hPa) not determined                                 |
| Flash point :                   | Not applicable  |
| Evaporation rate :              | not tested.   |
| <b>Flammability</b>             |   |
| Lower explosion limit :         | not tested.   |
| Upper explosive limit :         | not tested.   |
| Combustion number :             | BZ5 Complete combustion with flames ( 20 °C)                |
| Combustion number :             | BZ5 Complete combustion with flames ( 100°C)                |
| Minimum ignition energy :       | 1 - 3 mJ<br>with inductive electrical resistance            |
| Minimum ignition energy :       | 3 - 10 mJ<br>without inductive electrical resistance        |
| Burning rate :                  | 0,3 mm/s  |
| Vapour pressure :               | not tested.   |
| Vapour density relative to air: | not available   |
| Relative Density:               | not available   |
| Solubility in water :           | (20 °C) insoluble   |

|  |   |
|--|---|
| Soluble in ... :                                   | fat<br>not tested.<br>unknown   |
| Octanol/water partition<br>coefficient (log Pow) : |   |
| Ignition temperature :                             | not tested.   |
| Self-ignition temperature :                        | 290 °C<br>Method : VDI 2263 (Grewer)  |
| Self-ignition temperature :                        | 290 °C<br>Method : VDI 2263 (Grewer)<br>The sample was mixed 1:1 with diatomaceous earth. |
| Thermal decomposition :                            | 300 - 370 °C (Heating rate : 3 K/min)<br>Method : DSC<br>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 :  | approx. 1,4 g/cm <sup>3</sup>   |
| Bulk density :                                     | 200 - 500 kg/m <sup>3</sup>   |
| Impact sensitivity :                               | Not impact-sensitive  |
| Specific resistance / electrical<br>conductivity : | Specific resistance (resistivity) : : 3,6E+15 Ohm.m<br>Electrical conductivity : : 4E-15 S/m<br>Temperature : : 19 °C |

## 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**

Strong oxidizing agents.  
sparks  
ignition

**10.5. Incompatible materials**

not known

**10.6. Hazardous decomposition products**

When used and handled as intended, none.

**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 (rat)<br>Method : 1999/45/EC  |
| Acute dermal toxicity :                  | not available  |
| Acute inhalation toxicity :              | not available  |
| Irritant effect on skin :                | non-irritant (rabbit)<br>Method : 1999/45/EC   |
| Irritant effect on eyes :                | non-irritant (rabbit)<br>Method : 1999/45/EC   |
| Sensitization :                          | non-sensitizing (Guinea pig)<br>Method : 1999/45/EC  |
| Repeated dose toxicity:                  | not available  |
| Genetic toxicity in vitro :              | Test type : Ames test<br>Test system : Strains of Salmonella typhimurium.<br>Metabolic activation : with and without<br>Result : Negative with and without metabolic activation<br>Method : OECD 471. 1983 |
| 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          |
| <b>Toxicity to soil-dwelling organisms :</b>                  | not available          |
| <b>Toxicity to terrestrial plants :</b>                       | not available          |
| <b>Toxicity to other environmentally relevant organisms :</b> | not available          |
| <b>Sediment toxicity :</b>                                    | Source : not available |

### 12.2. Persistence and degradability

Information related to the product itself:

|                                   |   |
|-----------------------------------|---|
| Physico-chemical eliminability :  | not available   |
| Photodegradation :                | not available   |
| Biodegradability :                | Not applicable due to insolubility in water. This product does not come into contact with the effluent when it is used for its purpose, otherwise it can be removed by filtration operations. |
| Dissolved Organic carbon(DOC) :   | Not applicable  |
| Chemical oxygen demand(COD) :     | 3.100 mg/g Method : internal test   |
| Biochemical oxygen demand(BOD5) : | 1 mg/g Method : internal test 5 d   |

### 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**

Incineration in an approved, controlled furnace. Observe: fire hazard data, physical and corrosion data.

##### **Uncleaned packaging**

For disposal local regulation is binding.

Composition C; H; N; O

### **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 :

|    |                                 |
|----|---------------------------------|
| 22 | Harmful if swallowed.           |
| 41 | Risk of serious damage to eyes. |

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

|      |                            |
|------|----------------------------|
| H302 | Harmful if swallowed.      |
| H318 | Causes serious eye damage. |

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