Material Safety Data Sheet

HIFIFAST BROWN HF25

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

Product Name	HIFIFAST BROWN HF25
Chemical Characterization	Monoazo/Benzimidazolone C.I. Pigment Brown 25 C. I. No.:12510
Company	ANSHAN HIFICHEM Co., Ltd. Address: No.8, 1st Bao An Road, Teng Ao Industrial Park, 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)

hazard warning labelling not compulsory

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
HIFIFAST BROWN HF25-B

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 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:
Nitrous gases (NOx)
Carbon monoxide (CO)
Carbon dioxide (CO2)
Hydrogen chloride (HCl)

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

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 dry

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
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 :	4 µm Method : ISO 13320-1 Median value
Colour :	brown
Odour :	not specified
Odour threshold :	not available
pH value :	5,5 - 8,5
Melting point (decomposition) :	not determined
Boiling point (decomposition) :	not determined
Flash point :	Not applicable
Evaporation rate :	Not applicable
Lower explosion limit :	not tested.
Upper explosive limit :	not tested.
Combustion number :	BZ1 Does not catch fire
Minimum ignition energy :	9,7 - 14,3 mJ with inductive electrical resistance
Vapour pressure :	not available
Vapour density relative to air :	not available
Relative Density:	not available
Solubility in water :	insoluble

Soluble in ... :	1-octanol not tested.
Octanol/water partition coefficient (log Pow) :	Not applicable
Ignition temperature :	330 °C
Self-ignition temperature :	280 °C
	Method : VDI 2263 (Grewer)
Thermal decomposition :	310 °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 :	1,53 g/cm3 (20 °C)
Bulk density :	97 kg/m3
Impact sensitivity :	Not impact-sensitive
Further information	No incompatible substance known.

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.
Stable.

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:

Information related to the product itself:

Acute oral toxicity :	LD50 > 2.000 mg/kg (rat) Method : OECD 423
Acute dermal toxicity :	not available
Acute inhalation toxicity :	not available
Irritant effect on skin :	non-irritant (rabbit) Method : OECD 404 - EEC 92/69, B.4
Irritant effect on eyes :	non-irritant (rabbit eye) Method : OECD 405 - EEC 92/69, B.5
Sensitization :	non-sensitizing Method : OECD 429
Repeated dose toxicity:	Repeated Dose Toxicity (subacute study) Route of application: gavage NOAEL: > 500 mg/kg (Exposure time : 18 days, Frequency of treatment: 14 times, Dose: 500 mg/kg body weight, Rats, male/female)
Genetic toxicity in vitro :	Test type : PRIVAL Modification of AMES Test For Azo Dyes Test system : Strains of Salmonella typhimurium. Metabolic activation : with and without Result : Negative with and without metabolic activation Method : OECD 471
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
Daphnia toxicity (chronic) :	NOEC 1 mg/l (21 d, Daphnia magna) Method : OECD 211, reproduction test
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 :	4 % (28 d, BOD in % of theoretical OD) Method : OECD 302 C Not biodegradable according to OECD 302 (not inherently biodegradable)
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 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

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%

LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative

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