Material Safety Data Sheet

HIFIFAST SCARLET HF4Y

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

Product Name	HIFIFAST SCARLET HF4Y
Chemical Characterization	Disazo Condensation C.I. Pigment Red 242 C. I. No.:20067
Company	ANSHAN HIFICHEM Co., Ltd. Address: No.8, 1st Bao An Road, TengAo 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 CLP regulation (Regulation (EC) No. 1272/2008, as amended)

The product is not classified as hazardous according to the CLP Regulation.

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 according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

hazard warning labelling not compulsory

The product does not require classification and labelling as hazardous according to CLP/GHS.

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
Potential dust explosion hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Chemical characterization
C.I.PIGMENT RED 242

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 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 hazards known at this time.

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

carbon oxides
hydrogen chloride
hydrogen fluoride
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

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

Take up mechanically
Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
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.
Take up in the dry state without forming dust. Consider Recycling
Information regarding Safe handling, see chapter 7.
Information regarding Waste Disposal, see chapter 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Take precautionary measures against static discharges.
Keep container tightly closed.
Ensure efficient exhaust ventilation when using this product

Hygiene measures

This substance is classified as non-hazardous. However the usual precautions for handling chemicals must be observed to avoid contact with the skin, eyes and respiratory tract. In case of contact with the product, wash the eye immediately with running water and the skin with water and soap.

Advice on protection against fire and explosion
Avoid formation of dust.
Organic products which are intentionally or unintentionally in powdered form have, in principle, the possibility of creating a dust explosion hazard
Keep away from sources of ignition.

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, open and handle carefully.
Keep away from sources of ignition.

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

Appropriate engineering controls
Local ventilation recommended - mechanical ventilation may be used.

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. Minimum breakthrough time / gloves : 60 min
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 (20 °C ; 1.013 hPa)
Form :	powder
Particle size :	< 5,31 µm 10 % Method : Not yet spezified
Particle size :	< 23,46 µm 50 % Method : Not yet spezified Median value
Particle size :	< 47,58 µm 90 % Method : Not yet spezified
Colour :	red
Odour :	not specified
Odour threshold :	cannot be determined
pH value :	app. 7 (20 °C, 50 g/l)
Melting point :	No melting point up to the decomposition temperature.
Boiling point :	(1.013 hPa) not determined
Sublimation temperature :	not applicable
Flash point :	Not applicable
Evaporation rate :	not tested.
Flammability :	not readily flammable, not pyrophoric, not readily flammable in contact with water
Lower explosion limit :	not tested.
Upper explosive limit :	not tested.

Combustion number :	BZ2 Short flaring up without spreading Method : Combustibility test safety laboratory Source : European Chemicals Agency (ECHA)
Minimum ignition energy :	not tested.
Vapour pressure :	not tested.
Vapour density relative to air :	not tested.
Relative Density:	not tested.
Solubility in water :	(20 °C)
	insoluble
Miscibility with water :	virtually insoluble
Solubility in…	fat
	not tested.
Solubility/qualitative :	not tested.
Octanol/water partition	unknown
coefficient (log Pow) :	
Ignition temperature :	not tested.
Self-ignition temperature :	324 °C Method : 92/69/EEC, A.16 Source : European Chemicals Agency (ECHA)
Thermal decomposition :	> 350 °C Method : isoperibolic decomposition test
Viscosity (dynamic) :	Not applicable
Viscosity (kinematic) :	Not applicable
Explosive properties :	Explosive according to EU supply regulations : There are no chemical groups associated with explosive properties present in the molecule. Method : Expert statement
Oxidizing properties :	Type of oxidizing effect : no oxidizing properties Method : Expert statement There are no chemical groups associated with oxidising properties present in the molecule. not oxidizing

9.2. Other information

Density :	1,61 g/cm3
Bulk density :	185 kg/m3

Surface tension :	not reasonable

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

When handled and stored appropriately no dangerous reactions are known
Organic products which are intentionally or unintentionally in powdered form have, in principle, the possibility of creating a dust explosion hazard

10.4. Conditions to avoid

ignition
Keep away from heat, sparks, open flames, and other sources of 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) Method : OECD 401
Acute dermal toxicity :	LD50 > 2.000 mg/kg (rabbit) Method : OECD 402 Source : European Chemicals Agency (ECHA) By analogy with a similar product.
Acute inhalation toxicity :	not reasonable
Irritant effect on skin :	non-irritant (4 h, rabbit) Method : OECD 404 By analogy with a similar product.

Irritant effect on eyes :	non-irritant (72 h, rabbit eye) Method : OECD 405 By analogy with a similar product.
Sensitization :	non-sensitizing (mouse) Method : OECD 429 non-sensitizing (Guinea pig) Method : OECD 406 By analogy with a similar product.
Repeated dose toxicity:	Sub-acute oral toxicity Route of application: gavage NOAEL: >= 1.000 mg/kg (Exposure time : 28 d, Frequency of treatment: daily, Dose: 100 - 300 - 1000 mg/kg bw/day, Rats, male/female) Method : OECD 422 Source : European Chemicals Agency (ECHA) By analogy with a similar product. Repeated Dose Toxicity Route of application: inhalation The study is not necessary from a scientific perspective. Repeated Dose Toxicity Route of application: dermal The study is not necessary from a scientific perspective. Repeated Dose Toxicity (subchronic study) The study is not necessary from a scientific perspective.
Genetic toxicity in vivo :	Micronucleus assay mouse (NMRI, male) gavage once 500 - 1000 - 2000 mg/kg Bone marrow cells Method : OECD Test Guideline 474 Source : European Chemicals Agency (ECHA) other TS Negative

Genetic toxicity in vitro :	Test type : Ames test Test system : Strains of Salmonella typhimurium. Concentration : 10 - 5000 µg/plate Metabolic activation : with and without Result : Negative Method : OECD 471 Test type : HGPRT assay Test system : V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration : 45 - 900 µg/ml Metabolic activation : with and without Result : Negative Method : OECD Guide-line 476 Source : European Chemicals Agency (ECHA) By analogy with a similar product. Test type : Chromosome Aberration Test Test system : V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration : 0,3 - 20 µg/ml Metabolic activation : with and without Result : Negative Method : OECD 473
Assessment of mutagenicity :	It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
Assessment of carcinogenicity :	not available
Developmental toxicity/teratogenicity :	The study is not necessary from a scientific perspective.
Toxicity to reproduction/fertility :	One generation study NOAEL parent: >= 1.000 mg/kg (Exposure time : ca. 4 w (m), ca. 6 w (f), Frequency of treatment: daily, Pre-mating exposure period, male: 14 d, Pre-mating exposure period, female: 14 d, Dose: 100 - 300 - 1000 mg/kg, rat, male/female) NOAEL F1: >= 1.000 mg/kg (Exposure time : ca. 4 w (m), ca. 6 w (f), Frequency of treatment: daily, Pre-mating exposure period, male: 14 d, Pre-mating exposure period, female: 14 d, Dose: 100 - 300 - 1000 mg/kg, rat, male/female) Method : OECD 422 Source : European Chemicals Agency (ECHA) By analogy with a similar product. Two generation study The study is not necessary from a scientific perspective.
Assessment of toxicity to reproduction :	No reproductive toxicity to be expected.
Assessment of teratogenicity :	No teratogenic effects to be expected.
Specific target organ toxicity (STOT) - single exposure :	Assessment : No classification for STOT-Single exposure is required.

Specific target organ toxicity (STOT) - repeated exposure :	Assessment : No classification for STOT-Repeated exposure is required.
Aspiration hazard :	

No aspiration toxicity is expected.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Information related to the product itself:

Fish toxicity :	LC0 >= 1 mg/l (96 h, Zebra fish (Daniorerio)) Method : OECD 203 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. EC50 > 1 mg/l (96 h, Zebra fish (Daniorerio)) Method : OECD 203 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. LC100 > 1 mg/l (96 h, Zebra fish (Daniorerio)) Method : OECD 203 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration.
Fish toxicity (chronic) :	not required
Daphnia toxicity :	EC50 > 100 mg/l (48 h, Daphnia magna) Method : OECD 202 The details of the toxic effect relate to the nominal concentration. NOEC >= 100 mg/l (48 h, Daphnia magna) Method : OECD 202 The details of the toxic effect relate to the nominal concentration.
Daphnia toxicity (chronic) :	NOEC >= 10 mg/l (21 d, Daphnia magna) Analytical monitoring : yes Method : OECD 211, reproduction test Source : European Chemicals Agency (ECHA) By analogy with a similar product. The details of the toxic effect relate to the nominal concentration.

Algae toxicity :	EC50 (growth rate) < 1 mg/l (72 h, Desmodesmussubspicatus) Method : OECD 201 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. NOEC (growth rate) 1 mg/l (72 h, Desmodesmussubspicatus) Method : OECD 201 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. LOEC (growth rate) > 1 mg/l (72 h, Desmodesmussubspicatus) Method : OECD 201 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. EC50 (biomass) < 1 mg/l (72 h, Desmodesmussubspicatus) Method : OECD 201 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. NOEC (biomass) 1 mg/l (72 h, Desmodesmussubspicatus) Method : OECD 201 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. LOEC (biomass) > 1 mg/l (72 h, Desmodesmussubspicatus) Method : OECD 201 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration.
Bacteria toxicity :	EC50 > 1.000 mg/l (3 h, activated sludge, domestic) Method : OECD 209 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. NOEC 1.000 mg/l (3 h, activated sludge, domestic) Method : OECD 209 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration. (other bacteria) not required
Toxicity to soil-dwelling organisms :	NOEC 1.000 mg/kg (14 d, Eiseniafoetida) Method : OECD Guide-line 207 By analogy with a similar product. The details of the toxic effect relate to the nominal concentration.
Toxicity to terrestrial plants :	The study is not necessary from a scientific perspective.
Sediment toxicity :	not tested.

12.2. Persistence and degradability

Information related to the product itself:

Physico-chemical eliminability :	This product is not readily biodegradable.
Biodegradability :	0,48 % (28 d, BOD in % of theoretical OD) not readily degradable Method : other (calculated) Source : European Chemicals Agency (ECHA) By analogy with a similar product.

12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation:	Due to the low logPow bioaccumulation is not expected

12.4. Mobility in soil

Information related to the product itself:

Transport and distribution between environmental compartments :	adsorption (Soil) Low potential for adsorption to soil (log Pow < 3).
Behaviour in environmental compartments	not available

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

The substance is not identified as a PBT or as a vPvB substance.

12.6. Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks

Do not allow to enter soil, waterways or waste water

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; Cl; F; 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

A Chemical Safety Assessment has been carried out for this substance.

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)