

TIANJIN DUOFUYUAN INDUSTRIAL Co., LTD
MATERIAL SAFETY DATA SHEET

**** **MSDS** ****

PRODUCT NAME

FOOD ADDITIVE BRILLIANT BLUE (FD &C Blue 1)

DFY-2018-01

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Food Additive Brilliant blue
Molecular Formula	$C_{37}H_{34}N_2Na_2O_9S_3$
Formula Weight	792.85
Application	food、 medicine、 makeup and so on
Supplier	Tianjin Duofuyuan Industrial Co., Ltd
Post code	301600
Telephone	(86-22) 28949818
Fax	(86-22) 28949666
Emergency Telephone	(86-22) 68291716

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

Content	$\geq 85.0\%$
CAS No.	3844-45-9
FD&C	Blue No.1
EEC No.	E133
EINECS	223-339-8
C.I.	C.I. 42090 C.I. Food blue 2

SECTION 3 HAZARDS IDENTIFICATION

This substance is not classified as dangerous according to The standard of the People's Republic of China.

SECTION 4 FIRST AID MEASURES

If in halation	If breathed in, move person into fresh air, If is severe, consult a physician.
In case of skin contact	Wash off with soap and plenty of water
In case of eyes contact	You should rinse the eyes for 15 minutes if it splashes in. If the eyes are still very afflictive, please seek medical attention.
If swallowed	Emetic and rinse mouth with Water. Consult a physician.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media	Water spray、 bubble、 Dry powder、 CO ₂
Fire/explosion hazard	unlimited
The main combustion gas	Carbon dioxide, nitrogen oxide and sulphur oxide
Advice for firefighters	Wear self-contained breathing apparatus for fire-fighting if necessary

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Eye/face protection glasses 、 gloves,use personal protective equipment.Keep unnecessary and unprotected personnel from entering .Avoid dust formation . Avoid breath in gvapors , dust or gas . Ensuread equate ventilation.
Environmental precautions	To prevent the pollution of the environment
The leakage treatment	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

Handling	
Occupational health	Handle in accordance with good industrial hygiene and safety practice.Avoid breathing、 contact with skin and eyes.
Storage	
Fire prevention measures	Close to the fire,Water spray make the container colling,To prevent dust accumulate.
Storage requirements	Store in dry ventilation warehouse
Isolation measures	no special requirements
Conditions for storage	no special requirements

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/face protection	Eye/face protection glasses、Gloves
Body Protection	Wear the uniform
Hand protection	Wear gloves
Other protection	Change clothes in time, Pay attention to personal hygiene

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	powder or particle
Colour	Red purple ~ blue purple
Odour	Characteristic
PH	5.5-7.5 (10g /L)
Boiling Point	No data available
Flash Point	182°C- closed cup - ISO 2719
Oxidizing properties	None
Vapour pressure	No data available
Density	0.8 g / cm ³
Solubility in water	200g / L (25°C)
Melting point	283°C
Explosion Limits, lower	No data available
Explosion Limits, upper	No data available
Decomposition temperature	No data available

SECTION 10 STABILITY AND REACTIVITY

Chemical stability	This product is stable
Possibility of hazardous reactions	No data available
Conditions to Avoid	Avoid moisture
Hazardous decomposition products	No data available

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity		
LD50 Oral	> 2000 mg /kg	mouse
Skin	non-irritant	rabbit
eye	non-irritant	rabbit
Additional Information	Toxicology data is based on similar products	

SECTION 12 ECOLOGICAL INFORMATION

Ecological Toxicity	Non-toxic to Aquatic organisms
Biodegradable	< 10 %

Effect on Sewage treatment plant	Use proposed approach, no effect on waste water equipment
Phosphorus content	No data available
Organo-halogens content	No data available
Arsenic (As) (mg/kg)	≤1.0
Lead (Pb) (mg/kg)	≤10.0
Mn (Mn) (mg/kg)	≤50.0
Cr (mg/kg)	≤50.0
Additional Information	Toxicology data is based on similar products

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	store and disposition should refer to National and Local's relate law
Contaminated packaging	contact with the manufacturer recycling

SECTION 14 TRANSPORT INFORMATION

UN Number	
ADR/ RID	—
IMDG	—
IATA	—
UN Propershipping Name	
ADR/ RID	No dangerous goods
IMDG	No dangerous goods
IATA	No dangerous goods
Transport Hazaed Class(ES)	
ADR/ RID	—
IMDG	—
IATA	—
Transportation notice	Avoid the vessel leakage, you must be light load & unload.Packing intact,To prevent the goods from rain humidity, loss and damage. Transportaion avoid mixed with harmful substances. Store in dry ventilation warehouse , prevent pollution.

SECTION 15 REGULATORT INFORMATION

This substance is not classified as dangerous according to The standard of the People's Republic of China.

This safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

SECTION 16 OTHER INFORMATION

Further information

Use the information

Relevant national and local regulations should be observed while using this product .
The data given here is based on current knowledge and experience .

The given details do not imply any guarantee concerning the composition , properties or performance .

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

Tianjin Duofuyuan Industrial Co., Ltd produce the product only used in recommended specified purposes, or used in specified purposes agree with our company, but user must abide by company advice and related laws and regulations. Except for recommended specified purposes, Before using must consult manufacture company advice.