SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 18, 2017

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1. Identification

1.1 GHS Product identifier

Product name Fluorescent Brightener 71

1.2 Other means of identification

Product number -

Other names disodium,5-[(4-anilino-6-morpholin-4-yl-1,3,5-triazin-2-

yl)amino]-2-[(E)-2-[4-[(4-anilino-6-morpholin-4-yl-1,3,5-

triazin-2-yl)amino]-2-

sulfonatophenyl]ethenyl]benzenesulfonate

1.3 Recommended use of the chemical and restrictions on use

Identified uses For industry use only. Colorants

Uses advised against no data available

Company XiXisys.com
Address XiXisys.com
Telephone XiXisys.com
Fax XiXisys.com

Emergency phone

number

Service hours Monday to Friday, 9am-5pm (Standard time zone:

UTC/GMT +8 hours).

2. Hazard identification

2.1 Classification of the substance or mixture

Not classified.

2.2 GHS label elements, including precautionary statements

Pictogram(s) No symbol.

Signal word

No signal word.

Hazard statement(s)

none

Precautionary statement(s) Prevention

none

Response

none

Storage

none

Disposal

none

2.3 Other hazards which do not result in classification

none

3. Composition/information on ingredients

3.1 Substances

Chemical name	Common names and	CAS	EC	Concentration
	synonyms	number	number	
Fluorescent	Fluorescent Brightener	16090-02-	nono	1000/
Brightener 71	71	1	none	100%

4. First-aid measures

4.1 Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest. Fresh air, rest.

In case of skin contact

Rinse and then wash skin with water and soap.

In case of eye contact

Rinse with plenty of water for several minutes (remove contact lenses if easily possible).

If swallowed

Rinse mouth.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Absorption, Distribution and Excretion

INTUBATION IN RATS SHOWED LITTLE ABSORPTION FROM INTESTINAL TRACT. EXCRETED RAPIDLY IN FECES. PARENTERAL ADMIN TO RATS, RAPIDLY EXCRETED IN FECES; SMALL AMT IN TISSUES & ORGANS. ABSORPTION BY SKIN: SLIGHT.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire in the surroundings, use appropriate extinguishing media.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe

areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Personal protection: protective gloves and particulate filter respirator adapted to the airborne concentration of the substance. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective

equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state COA

Colour no data available
Odour no data available

Melting point/ freezing >270°C

point

Boiling point or initial no data available

boiling point and boiling range

Flammability Not combustible. Gives off irritating or toxic fumes (or

gases) in a fire.

Lower and upper no data available

explosion limit / flammability limit

Flash point not available

Auto-ignition >500 °C

temperature

Decomposition 300°C

temperature

pH no data available Kinematic viscosity no data available

Solubility In water, 5 mg/l at 25°C.

Partition coefficient n- -1.5

octanol/water (log

value)

Vapour pressure no data available Density and/or relative no data available

density

Relative vapour density no data available Particle characteristics no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

When heated to decomposition it emits toxic vapaors of nitrous oxides and /hydrogen chloride/.

11. Toxicological information

Acute toxicity

· Oral: no data available

· Inhalation: no data available

· Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. Ecological information

12.1 Toxicity

- · Toxicity to fish: no data available
- · Toxicity to daphnia and other aquatic invertebrates: no data available
- · Toxicity to algae: no data available

· Toxicity to microorganisms: no data available

12.2 Persistence and degradability

Laboratory experiments showed that fluorescent whitening agents used in detergents are not readily biodegradable. Tests which used the oxygen consumption over 5 days as a measure of the ability of fluorescent agents to serve a substrate for bacterial growth gave no evidence of biodegradation; C.I. Fluorescent Brightener 260 had a BOD5 of zero. In a river die-away test at which carbon dioxide production was measured in solutions of maximum 1000 ppb over a period of 35 days, no biodegradability was found(1).

12.3 Bioaccumulative potential

A bioconcentration factor range of 1.4 to 28 in carp was determined for C.I. Fluorescent Brightener 260(1). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

12.4 Mobility in soil

The Koc of C.I. Fluorescent Brightener 260 is estimated as approximately 1800(SRC), using a water solubility of 5 mg/l(1) and a regression-derived equation(2,SRC). According to a classification scheme(3), this estimated Koc value suggests that C.I. Fluorescent Brightener 260 is expected to have low mobility in soil(SRC). Due to the ionic nature of the brightener, the retention of C.I. Fluorescent Brightener 260 by ion-exchange processes(4,SRC), particularly on clay surfaces and adsorption at mineral surfaces such as geothite(5,SRC), may slow down or prevent leaching(SRC). In one experiment, clean water was percolated through sludge containing fluorescent whitening agents. After 68 days the total amount leached from the original 216 mg C.I. Fluorescent Brightener 260 in 20 kg sludge was only 0.02%(6).

12.5 Other adverse effects

no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer

systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

ADR/RID: no data available IMDG: no data available IATA: no data available

14.2 UN Proper Shipping Name

ADR/RID: no data available IMDG: no data available IATA: no data available

14.3 Transport hazard class(es)

ADR/RID: no data available IMDG: no data available IATA: no data available

14.4 Packing group, if applicable

ADR/RID: no data available IMDG: no data available IATA: no data available

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the

product in question

Chemical name	Common names and synonyms	CAS number	EC number
Fluorescent Brightener 71	Fluorescent Brightener 71	16090-02-1	none
European Inventory of E. (EINECS)	Listed.		
EC Inventory	Listed.		
United States Toxic Subs	Listed.		
China Catalog of Hazard	Not Listed.		
New Zealand Inventory	Listed.		
Philippines Inventory of (PICCS)	Listed.		
Vietnam National Chemi	Not Listed.		
Chinese Chemical Invent (China IECSC)	Listed.		

16. Other information

Information on revision

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Abbreviations and acronyms

· CAS: Chemical Abstracts Service

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- · IMDG: International Maritime Dangerous Goods
- · IATA: International Air Transportation Association
- · TWA: Time Weighted Average
- · STEL: Short term exposure limit
- · LC50: Lethal Concentration 50%
- · LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website:
 http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:
 - http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website:
 http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website:
 http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website:
 http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- · ECHA European Chemicals Agency, website: https://echa.europa.eu/

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