

According to Regulation(EU) 2015/830

Date of issue : 07.09.2020 – Version : EU_EN/2 – Print date : February 2021

Material Safety Data Sheet

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

Product Identifier

Trade name : Beet Red Water Soluble Dye
Relevant identified uses of the substance
or mixture and uses advised against : colouring agent
Uses advised against : not known
Details of the supplier of the safety
data sheet
Supplier/Manufacturer: Craftovator
Studio

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No.
1272/2008(CLP) : not classified
According to Directive 67/548/EEC &
Directive 1999/45/EC : not classified
Additional information : not available

Label elements

GHS label elements : not applicable
Hazard pictogram(s) : not applicable
Signal word(s) : not applicable
Hazard statement(s) : not applicable
Precautionary statement(s) : not applicable
Other hazards : not known

3.COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:

CAS Number: 3567-66-6

Identification number(s)

EINECS Number: 222-656-9

Color Index:17200

Additional information: Molecular Formula: C16H11N3Na2O7S2

4. FIRST AID MEASURES

Description of first aid measures

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Inhalation: in case of accident by inhalation : remove causality to fresh air and keep at rest
Skin contact : wash affected skin with plenty of water
Eye contact : if contact with eyes directly, flush with gently flowing fresh water
thoroughly; If eye irritation persists, get medical advice/attention
Ingestion : if ingested, wash out mouth with water, drink milk or egg white
Notes to physician : no special measures are required

Most important systems and effects,

Both acute and delayed

Actue : none

Long term (repeated) : may cause irritation to the respiratory system. Cough. Increased
difficulty in breathing

Indication of immediate medical attention and special treatment needed

Recommended :a. Chest XRay
b. Lung functionality tests

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : extinguish with waterspray, foam or dry chemical

Unsuitable extinguishing media : carbon dioxide

Special hazards arising from the substance or mixture

Thermal hazards : noncombustible. None anticipated

Advice for firefighters : fire fighters should wear complete protective clothing including
selfcontained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions : do not breathe dust

Personal protection equipment : wear appropriate personal protective equipment, avoid direct contact

In case of emergency : a self contained breathing apparatus and suitable protective clothing should be
worn in fire conditions

Environmental precautions : do not allow to enter drains, sewers or watercourses

Methods and material for

Containment and cleaning up : collect mechanically and dispose of according to Section 13. Use vacuum
equipment for collecting spilt materials, where practicable

Reference to other sections : see sections 8 and 13

7. HANDLING AND STORAGE

Precautions for safe handling : avoid breathing dust

Conditions for safe storage

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including any incompatibilities : keep container in a wellventilated place

Specific end use(s) : not known

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters : provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures

Exposure limit values : not known

Exposure controls

Appropriate engineering controls :provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. Isolate the dispersive process step away from other operations. This can be achieved by local exhaust ventilation or general ventilation

Individual protections measures, such as personal protective equipment(PPE)

Hand/eye/face protection : wear gloves, eye protection and an approved dust mask if dust is generated during handling. Goggles giving complete protection to eyes. Dust mask covering nose and mouth

Skin protection :apron or other light protective clothing, boots and plastic or synthetic rubber gloves

Respiratory protection : dust mask covering nose and mouth

Thermal hazards : none

Environmental exposure controls : avoid dust generation. Avoid accumulation of dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Powder or particle

Colour : Red

Odour : None

PH :not applicable

Melting point, ° C : not applicable

Flash point : not applicable

Danger of explosion : Product does no present an explosion hazard

Density : not applicable

Water solubility : soluble

10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : stable under normal conditions

Possibility of hazardous reactions : none

Conditions to avoid : No data available

Incompatible materials : No data available

Decomposition products : no data available

11. TOXICOLOGICAL INFORMATION

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Information on toxicological effects

Acute toxicity : LD 50 Oral- rat -> 2000 mg/kg
Carcinogenicity : No component of this product present at level to
0.1 % is identified as probable , possible carcinogen by
IARC .

12. ECOLOGICAL INFORMATION

Toxicity to fish : LC50- Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic
Invertebrates : EC50 - Daphnia magna (Water flea)
Bioaccumulative potential : no data
Mobility in soil : not applicable
Results of PBT and vPvB assessment : not applicable
Other adverse effects : not known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods : dispose of contents in accordance with local, state or national legislation

14. TRANSPORT INFORMATION

Not classed as dangerous for transport.

International Transport Regulations	ADR/RID	ADN	IMDG	ICAO/IATA
UN number	Not applicable	Not applicable	Not applicable	Not applicable
Proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable
Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable	Not applicable
Environmental hazards	None	None	None	None
Special precautions for user	None	None	None	None
Transport in bulk according to Annex II of MARPOL73/78 and The IBC Code	Not applicable	Not applicable	Not applicable	Not applicable
Hazard label(s)	Not applicable			

15. REGULATORY INFORMATION

According to Directive 67/548/EEC &
Directive 1999/45/EC : not classified as dangerous for supply/use
Safety, health and environmental
regulations/legislations specific for the

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substance or mixture

:not available

16. OTHER INFORMATION

Annex to the extended Safety Data Sheet (eSDS)

ADR : European Agreement concerning international carriage of Dangerous goods by Road

CAS : Chemical Abstracts Service

EC : European Community

ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

IATA : International Air Transport Association

DATA SOURCES

NPIRI Raw Material Handbook, Volume 4, Pigments, Second Edition, 2001

Book on "Safe Handling of Pigments", European Edition 1995, BCMA, EPSOM ETAD, VdMi

HSDB

NIOSH ICSC

Hazardous Substance Fact Sheet, New Jersey Department of Health and Senior Service

We have described our product concerning possible safety requirements by the abovementioned information given to the best of our knowledge and experience. All data given are never meant to guarantee any quality description nor product properties

TECHNICAL DATA SHEET

Product name :	Beet Red Water Soluble Dye
Date :	01.10.2022

CHARACTERISTICS		RANGE	
Physical properties			
Characteristics		Beet Red	
Chemical composition			
Pure dye content		87.0–100.0 %	
Chemical characterization:			
CAS NO. Description			
3567–66–6			
Identification number(s)			
EINECS Number: 222–656–9			
Color Index: 17200			
Additional information: Molecular Formula: C ₁₆ H ₁₁ N ₃ Na ₂ O ₇ S ₂			
Heavy metals			
As	< 1 ppm	Hg	< 1 ppm
Pb	< 5 ppm		
Microbial purity			
Total viable Aerobic count		< 100	
E. Coli		Absent in 1 g	
Pseudomonas aeruginosa		Absent in 1 g	
Staphylococcus aureus		Absent in 1 g	
Salmonella species		Absent in 1 g	
Candida albicans		Absent in 1 g	

Certificate of Analysis

Product Code: Beet Red Water Soluble Dye
 Supplier/Manufacturer: Craftovator Studio
 Shelf Life: 5 Years

NO.	TESTS	SPECIFICATIONS	RESULTS
1	PURE DYE CONTENT	>87%	91.30%
2	WATER INSOLUBLE MATTER	<0.2%	0.12%
3	LOSS ON DRYING AT 135°C, 1 HOUR	<15.0%	6.32%
4	4-AMINO-5-HYDROXY-2, 7-NAPHTHALENE DISULPHONIC ACID, DISODIUM SALT	<0.3%	0.077
5	4, 5-DIHYDROXY-3-(PHENYLAZO)2, 7-NAPHTHALENE DISULPHONIC	<3.0%	1.00%
6	ANILINE	<25PPM	<5PPM
7	4-AMINOAZOBENZENE	<100PPM	<10PPM
8	1,3-DIPHENYLTRIAZENE	<125PPM	<15PPM
9	4-AMINOBIHENYL	<275PPM	<25PPM
10	AZOBENZENE	<1PPM	<1PPM
11	BENZIDINE	<20PPM	<5PPM
12	LEAD	<5PPM	<5PPM
13	ARSENIC	<1PPM	<1PPM
14	MERCURY	<1PPM	<1PPM

It is hereby confirmed that the delivered goods have been examined and they are in accordance with our confirmation of order