Safety data sheet

CrystalStain, Cell Staining Solution

Product name CrystalStain, Cell Staining Solution	Catalog no. CSS50, CSS100
Synonyms -	SDS revision 01 August 2022
CAS no. -	Format version / date 3 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	CrystalStain, Cell Staining Solution
Product code	CSS50, CSS100
CAS number	-
EC number	-
Recommended use	For research use only.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone / fax	0090 442 282 20 44
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Classification according to Regulation (EC) No 1272/2008: Long-term (chronic) aquatic hazard (Category 2), H411.
Label elements	See pictogram, signal word, hazard and precautionary statements below.
Symbols / pictograms	
Signal word	Warning
Hazard statements	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (1/2)	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment.
Precautionary statements (2/2)	P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use non-sparking tools. P273 - Avoid release to the environment.
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Composition & response

CrystalStain, Cell Staining Solution | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	CrystalStain, Cell Staining Solution
Synonyms	-
Concentration	-
Formula	-
Molecular weight	-
Mixture statement	This product is a mixture.
Crystal violet (CAS 548-62-9)	Concentration: >= 0,25 - 0,40 % Classification: Acute Tox. 4; Eye Dam. 1; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1. H302, H318, H351, H400, H410. M-Factor - Aquatic Acute: 10.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathed in, move person into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
Self-protection of first aider	-
Most important symptoms / effects	-
Immediate medical attention / treatment	-

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	-
Condition of flammability	No data available.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	No data available.

Safe use & protection

CrystalStain, Cell Staining Solution | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see Section 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature	+4 °C.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values: Not available.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, especially in confined areas.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye / face protection	Tightly fitting safety goggles. Face shield (8-inch minimum). Use eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand protection	Handle with gloves. Inspect gloves before use. Use proper glove removal technique without touching the outer surface. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands.
Skin and body protection	Complete suit protecting against chemicals. Select type of protective equipment according to concentration and amount of the dangerous substance at the workplace.
Respiratory protection	Where risk assessment supports air-purifying respirators, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) cartridges as backup to engineering controls. If the respirator is the sole protection, use a full-face supplied-air respirator. Use equipment approved under NIOSH or CEN.

Material properties

CrystalStain, Cell Staining Solution | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	Vapor/air-mixtures are explosive at intense warming.
Chemical stability	Stable at a cool, dark and dry place.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Heating.
Incompatible materials	Strong oxidizing agents, strong acids and bases.
Hazardous decomposition products	When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.

Health & environment

CrystalStain, Cell Staining Solution | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No data available
Skin corrosion / irritation	No data available
Serious eye damage / eye irritation	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT - SE	No data available
STOT - RE	No data available
Aspiration hazard	No data available

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin: May be harmful if absorbed through skin. Causes skin burns.
Eyes: Causes eye burns.

11.3 Additional information

RTECS: SL5600000

12 ECOLOGICAL INFORMATION

Ecotoxicity	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

CrystalStain, Cell Staining Solution | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
DOT (US)	-	Not regulated.	-	-	-
IMDG	-	Not regulated.	-	-	-
IATA	-	Not regulated.	-	-	-

UN proper shipping name	ADR/RID: Not dangerous goods; IMDG: Not dangerous goods; IATA: Not dangerous goods.
Transport in bulk	-

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	OSHA Hazards: No known OSHA hazards. SARA 302: No chemical in this material is subject to the reporting requirements of SARA Title III, Section 302. SARA 313: No components with known CAS numbers exceed the threshold (De Minimis) reporting levels established under SARA Title III, Section 313.
Environmental hazards	-
Chemical safety assessment	For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail