

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code ULTRA-SAFE-BLUE
Product name UltraSafe Blue DNA/RNA stain

Company/Undertaking Identification

Synoptics Ltd	5108 Pegasus Court, Suite M
Beacon House	Frederick
Nuffield Road	MD 21704
Cambridge	USA
CB4 1TF	800-686-4407 (Toll Free)
UK	
+44 (0)1223 727123	

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Composition/information on ingredients

Pure Chemical No
Mixture Yes

Chemical ingredients:

	Molecular formula	Content (%)	CAS No.
Thiazole orange dyes	$C_{26}H_{24}N_2O_3S_2$	1-5	107091-89-4
DMSO (Dimethyl sulfoxide)	C_2H_6OS	95-99	67-68-5

3. Hazards identification

GHS-classification

Not hazardous

Health Hazard

Irritating to eyes. May cause sensitization by skin contact. If more than several mouthfuls are swallowed, abdominal discomfort, nausea may occur.

Environmental Hazard

Not reported

Principle Routes of Exposure/ Potential Health effects

Eyes	Irritating to eyes.
Skin	Components of the product may be absorbed into the body through the skin.
Inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.

Specific effects

Carcinogenic effects	not applicable
Mutagenic effects	substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making satisfactory assessment.
Reproductive toxicity	not applicable
Sensitization	not applicable
Target Organ Effects	No known effects under normal use conditions

4. First aid measures

Skin contact	Wash off immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation	Move to fresh air. Consult a physician

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions	Use personal protective equipment
Methods for cleaning up	Soak up with inert absorbent material

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See section 12 for additional information.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment.
Storage	Keep in properly labeled containers.

8. Exposure controls/personal protection

Exposure limits

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal Protective equipment

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

Impervious butyl rubber gloves. Nitrile gloves are not recommended.

Eye protection

Safety glasses with side-shields

Skin and body protection

Lightweight protective clothing.

9. Physical and Chemical properties

General Information

Form liquid
Appearance orange
Odor slight odor
Boiling point °C 189
Melting point °C 16-19
Flash point °C 80
Water solubility miscible
Specific gravity 1.1-1.2g/cm³

10. Stability and reactivity

Stability stable under normal temperatures and pressures
Incompatibility oxidizing agents, reducing agents, acid chlorides, strong acids
Conditions to avoid Heat and open flame
Hazardous polymerization does not occur

11. Toxicology Information

Acute Toxicity

Chemical Name	LD50 (ipr-rat)	LD50 (orl-rat)	LD50 (skn-rat)	LD50 (Skn-wmn TDLo)
Dimethyl sulfoxide (DMSO)	8200 mg/kg	14500 mg/kg	40g/kg	1800mg/kg

Principle Routes of Exposure/Potential Health effects

Eyes Irritating to eyes
Skin Components of the product may be absorbed into the body through the skin.
Inhalation May cause irritation of respiratory track
Ingestion May be harmful if swallowed
Carcinogenic effects No information available
Mutagenic effects Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.
Reproductive toxicity No information available
Sensitization No information available

12. Ecological Information

Ecological toxicity	No information available
Biodegradability	No information available
Non-biodegradability	No information available
Other hazardous	Will not effect environment

13. Disposal Considerations

Dispose of in accordance with local regulations

14. Transport information

ICAO/IATA	IMDG Code	RID/ADR
Not regulated as dangerous	Not regulated as dangerous	Not regulated as dangerous

15. Regulatory information

Regulatory information

Recommendations on the transport of dangerous goods-model regulations, IATA dangerous goods regulations, International Maritime Dangerous Goods Code, U.S. Hazardous Material Regulations.

16. Other information

Reference

National standard of People's Republic of China. (GB16483-2008)

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End of Safety Data Sheet