

## Safety Data Sheet

Apex Safe DNA Loading Dye/Stain

Genesee Scientific

### Section 1 Product Description

Product name: Apex Safe DNA Loading Dye/Stain (20-278D)  
Recommended use: Life science applications  
Synonyms: Safe DNA Loading Dye, 20-278D  
Supplier of SDS: Genesee Scientific  
8430 Juniper Creek Lane  
San Diego, CA 92126  
800-789-5550  
Chemical Information: 800-789-5550  
Emergency: 800-789-5550

### Section 2 Hazard Identification

GHS Classification: Not a hazardous substance or mixture

Health hazards: Not hazardous

Physical hazards: Not hazardous

Precautionary Statements: May cause eye and skin irritation in susceptible persons. Use appropriate protective gear.

HMIS

Health	0
Flammability	0
Reactivity	0

### Section 3 Composition/Information on Ingredients

Chemical Name	CAS#	EINECS #	Weight %
Safe DNA Loading Dye			<1%
Glycerol	56-81-5	200-289-5	10-50%
Dimethyl Sulfoxide	67-68-5	200-664-3	20-50%
Water	7732-18-5		20-50%

This product contains no substances that are known to be hazardous at their given concentrations. As with all chemicals, handle with caution.

### Section 4 First Aid Measures

Emergency First Aid Procedures

Inhalation:

If inhaled, move person fresh air. If not breathing, give artificial respiration

Eye contact:

In case of eye contact, immediately flush eyes and under eyelids with plenty of water for at least 15 minutes. Seek medical advice if necessary.

Dermal exposure:

In case of contact, wash immediately with soap and water. If symptoms occur, seek medical advice.

Ingestion:

Rinse mouth with water. Never give anything by mouth to an unconscious person. Treat symptomatically.

### Section 5 Firefighting Measures

Extinguishing media:	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Firefighter advice:	Wear full protective equipment, self contained breathing apparatus
Fire/explosion Hazards:	N/A
Special hazards:	Nature of decomposition products is unknown

## Section 6 Spill or Leak Procedures

Steps to take:

Exercise appropriate precautions to minimize direct contact with skin or eyes. Prevent inhalation of vapors. Wear disposable coveralls and discard after use. Soak up with inert absorbing materials and place in a closed container for disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7 Handling and Storage

Handling:	Always wear recommended personal protective equipment. Avoid contact with skin and eyes
Storage:	Keep cap tightly closed and store at 4°C. Keep in properly labeled containers.

## Section 8 Exposure and/or Personal Protection

Control parameters:	Contains no substances with occupational exposure limits.
Engineering measures:	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	Eye/face - Wear compatible safety goggles.  Hands - Wear chemical resistant gloves. Inspect before use, dispose of after use. Body - Wear lightweight protective clothing, such as a lab coat.
Hygiene measures	Respiratory - Wear suitable respiratory equipment if ventilation is insufficient. Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls:	Product in diluted form has passed aquatic toxicity testing per regulation CCR Title 22. Dispose according to local regulations.

## Section 9 Physical and Chemical Properties

Appearance	Green liquid	Vapor pressure	No data
Odor	No data	Vapor density	No data
Odor threshold	No data	Relative density	No data
pH	No data	Water solubility	No data
Melting/freezing point:	No data	Log Pow	No data
Boiling point	No data	Auto ignition temp	No data
Flash point	No data	Decomposition temp	No data
Evaporation rate	No data	Viscosity	No data
Flammability	No data	Explosive properties	No data
Flammability limits	No data	Oxidizing properties	No data

## Section 10 Reactivity Data

Reactivity	No data available
Stability:	Stable under normal conditions

Materials to avoid:	No dangerous reaction known under normal conditions.
Decomposition products:	None under normal conditions
Hazardous polymerization:	Does not occur

## Section 11 Toxicity Data

### Acute Toxicity

Methane, sulfinylbis (67-68-5)	Oral LD 50 = 14500 mg/kg rat, Skin LD50 = 5000 mg/kg Rabbit, Inhalation Vapor LD50 = no data available, Inhalation Dust/Mist LD50 = no data, Inhalation Gas, LD50 ppm = 40,250 rat
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### Routes of entry:

Eye and skin	May cause eye and skin irritation with susceptible persons
Inhalation	May be harmful by inhalation
Ingestions	May be harmful if swallowed

Mutagenicity:	No data available
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Carcinogenic effects:	None
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Mutagenic effects:	None
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Reproductive toxicity:	No information available
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Sensitization:	No information available
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Target organ effects:	No known effects under normal use conditions.
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## Section 12 Ecological Data

Ingredient	96 hr LC50 Fish	48 hr EC50 crustacea	ErC50 algae
Methane, sulfinylbis (67-85-5)	34,000 mg/l Pimephales	25,000 mg/l Daphnia magna	12,350 mg/l (96 hr) Skeletonema

Ecotoxicity effects:	Passed OCR Title 22, test for aquatic toxicity
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Mobility:	No information available
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Biodegradation:	No information available
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Bioaccumulation:	No information available
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## Section 13 Disposal Considerations

Dispose of in accordance with local regulations.

## Section 14 Transport Information

DOT US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

## Section 15 Regulatory Information

### US Federal Regulations

SARA 313:	Not regulated by SARA
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Clean Air Act, Section 112	Contains no HAPs
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### US State Regulations

CA Prop 65	Contains no listed chemicals
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### Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by CPR.

WHMIS Hazard Class            Not controlled

## **Section 16 Other Information**

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to the appropriate safety precautions. It does not represent any guarantee of the properties of this product.

Genesee Scientific and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. Other terms and conditions of sale may apply.

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