



**NBS Biologicals**

BIO BASIC UK

## Safety Data Sheet

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# SafeView Nucleic Acid Stain (Improved Formulation)

## NBS-SV1

### 1. Product and Company Information

Product Name SafeView Nucleic Acid Stain (Improved Formulation)  
Product Number NBS-SV1

Company Name and Address: NBS Biologicals Ltd.  
14 Tower Square, Huntingdon  
Cambridgeshire  
PE29 7DT, UK

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### 2. Hazards Identification

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

#### Emergency overview

Irritant  
Irritating to eyes, respiratory system and skin

#### HMIS Rating

Health: 1  
Flammability: 2  
Physical Hazard: 0

#### NFPA Rating

Health: 2  
Flammability: 2  
Physical Hazard: 0

### 3. Composition/Information on Ingredients

Chemical Name	Formula	CAS #	EINECS #	Weight %
Water	H <sub>2</sub> O	7732-18-5	231-791-2	<1.9
SafeView	Trade secret	-	-	<0.1
Dimethyl sulfoxide	C <sub>2</sub> H <sub>6</sub> OS	67-68-5	200-664-3	98

## 4. First Aid Measures

### Eye Contact

Flush with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers.

### Skin Contact

Immediately wash skin with soap and copious amounts of water.

### Inhalation

Remove to fresh air. If breathing becomes difficult, call a doctor.

### Ingestion

Wash out mouth with water provided person is conscious. Call a doctor. Do not induce vomiting.

## 5. Fire Fighting Measures

### Special Risks

Wear self-contained breathing apparatus and protective clothing if necessary. Decomposes at melting point. Toxic gasses produced: hydrogen chloride, nitrogen oxides, carbon monoxide and carbon dioxide.

### Suitable Extinguishing Media

Dry Chemical

## 6. Accidental Release Measures

### Personal Precautions

Use personal protective equipment.

### Methods for Cleaning Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Ventilate after spill.

## 7. Handling and Storage

### Handling

Keep away from open flames, hot surfaces and sources of ignition. Change contaminated clothing. Wash hands after working with substance.

### Storage

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Hygroscopic.

## 8. Exposure Controls/Personal Protection

As appropriate to quantity handled.

NIOSH/MSHA approved respirator if necessary.

Compatible chemical resistant gloves.

Chemical safety goggles.

Keep tightly closed.

Store in a cool dry place.

## 9. Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Colour</b>	Orange-red to Brown
<b>Odour</b>	Odourless
<b>Melting Point</b>	18.4degC
<b>Boiling Point</b>	No information available
<b>Density</b>	No information available
<b>Vapour Pressure</b>	No information available
<b>Solubility in Water</b>	Soluble
<b>Flash Point</b>	No information available
<b>Explosion Limits</b>	No information available
<b>Ignition Temperature</b>	No information available

## 10. Stability and Reactivity

<b>Stability</b>	Stable
<b>Materials to Avoid</b>	N/A
<b>Hazardous Decomposition Products</b>	N/A
<b>Polymerization</b>	Does not occur

## 11. Toxicological Information

### Route of exposure / Potential health effects

- Skin Contact: May cause irritation.
- Skin Absorption: May be harmful if absorbed through the skin.
- Eye contact: May cause eye irritation.
- Inhalation: May cause irritation to upper respiratory tract and mucous membranes. May be harmful if inhaled.
- Ingestion: May be harmful if swallowed.

### Mutagenic effects

Mutation Data: Cell transformation, Syrian hamster embryo (SHE) cells, negative; Forward gene mutation at the thymidine kinase (TK) locus, mouse lymphoma (L5178Y) cells, negative with and without metabolic activation; Chromosomal aberrations, human peripheral blood lymphocytes, negative with and without metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA97a, TA98, TA102, TA1538), positive with metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA97a, TA98, TA102, TA1538), negative without metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA100, TA1535, TA1537), negative

**Carcinogenic effects** – N/A

**Reproductive toxicity** – N/A

**Sensitisation** – N/A

<b>Chemical Name</b>	LD50 (oral, rat)	LD50 (dermal, rat/mouse)	LD50 (inhalation, rat/mouse)
Water	N/A	N/A	N/A
SafeView	>5000 mg/kg	N/A	N/A
Dimethyl sulfoxide	28300 mg/kg	40000 mg/kg	>5.33 mg/L, 4 h

## 12. Ecological Information

**Ecotoxicity Effects** Contains no substances known to be hazardous to the environment, hazardous degradation products are not likely.

### Dimethyl sulfoxide

Freshwater Algae: EC50 96h 12350-25500 mg/L

Freshwater Fish: 40 g/L LC50 96 h, 33-37 g/L LC50 96 h

Microtox: = 16000 mg/L EC50 *Pseudomonas putida* 16 h

= 32 g/L EC50 *Tetrahymena pyriformis* 24 h

= 77 mg/L EC50 *Photobacterium phosphoreum* 5 min

Water Flea: EC50 24h 7000 mg/L

## 13. Disposal Considerations

Dispose of in accordance with local regulations.

## 14. Transport Information

<b>DOT (US)</b>	Combustible liquid, not regulated
<b>IMDG Class</b>	Not regulated
<b>IATA</b>	Not regulated

## 15. Regulatory Information

**Indication of Danger:** Not hazardous

**S-PHRASES:** None

**R-PHASES:** None

## 16. Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions.

NBS Biologicals Ltd. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.

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