

# MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

## 1. Chemical Product and Company Identification

**Product Name:** Autofluor

**Product Number:** LS-315

### Chemical Names/

#### Description:

autoradiographic image intensifier

### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30336

### Telephone Numbers

(800) 526-3867  
(404) 699-2121

### Emergency Numbers

#### Chemtrec

**(800) 424-9300 (U.S. & Canada)**  
**01-703-527-3887 (outside U.S. & Canada)**

## 2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Proprietary Phosphor	20 - 25			none established
Water	75 - 80	7732-18-5	231-791-2	

## 3. Hazards Identification

### Appearance and Odor

Clear to straw colored liquid

#### EMERGENCY OVERVIEW - IMMEDIATE HAZARD

May cause some degree of irritation to the eyes, skin, and respiratory tract.

#### EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:

Has caused reproductive toxicity in animal feeding studies.

### Potential Health Effects

#### Inhalation

If water solvent has evaporated, breathing dusts may cause irritation of the respiratory tract.

#### Ingestion

Substance may be harmful if swallowed. May cause psychosis, excitement, nausea, vomiting, and sweating.

#### Skin

May cause skin irritation.

### **Eyes**

May cause eye irritation.

## **Signs and Symptoms of Overexposure**

### **Inhalation**

Coughing, shortness of breath.

### **Ingestion**

Psychosis, excitement, nausea, vomiting, and sweating.

### **Skin**

Redness, itching, swelling.

### **Eyes**

Redness, tearing, itching.

## **Carcinogenicity**

Not listed as a known or possible carcinogen by NTP or IARC.

## **Mutagenicity**

No information available.

## **Reproductive Toxicity**

Has caused reproductive toxicity in animal feeding studies.

## **Teratogenic Effects**

No information available.

## **Routes of Entry**

No information available.

## **Target Organ Statement**

No information available.

## **4. First Aid Measures**

### **Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### **Ingestion**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

### **Skin**

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

### **Eyes**

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## **5. Fire Fighting Measures**

Flash Point	N.A.	Flammable Limits	N.A.
Flash Point Method	N.A.	Autoignition temperature	N.A.

## **Extinguishing media**

Use media appropriate to the primary cause of fire.

## Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Hazardous Combustion Products

Thermal decomposition products may include carbon monoxide, carbon dioxide, and hydrocarbons.

## Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

NFPA Codes: Health 1 Flammability 0 Reactivity 0

## 6. Accidental Release Measures

### Steps to be taken in case material is released or spilled

Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

### Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

### Personal Precautions

If water solvent has evaporated, wear NIOSH approved air-purifying respirator.

## 7. Handling and Storage

### Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

### Storage Temperature

Room Temperature

### Disposal

Observe all national, state, and local regulations regarding disposal.

## 8. Exposure Controls/Personal Protection

### Airborne Exposure Limits

Component: Proprietary Phosphor

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit (PEL):

### Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborn Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

### Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash

fountain and quick-drench facilities in work area.

### Skin Protection

Wear protective gloves and clean body covering clothing.

### Other Control Measures

none

## 9. Physical Properties

<b>Boiling point</b>	212 F	<b>Evaporation Rate</b>	1.0
<b>Melting point</b>	N.A.	<b>Solubility in water</b>	Very soluble
<b>Vapor pressure (mmHg)</b>	N.A.	<b>pH</b>	not available
<b>Vapor density (Air = 1)</b>	N.A.	<b>Specific gravity (H<sub>2</sub>O = 1)</b>	1.0
<b>% volatile by volume</b>	81		

## 10. Stability and Reactivity

### Stability

Stable under normal conditions of use.

### Conditions to Avoid

Keep from contact with oxidizing materials.

### Hazardous Decomposition Products

Not available.

### Hazardous Polymerization

Will not occur

### Incompatibles

Proprietary Phosphor:

Strong oxidizing agents.

Water:

No incompatibility data found.

## 11. Toxicological Information

### Product LD50 Values

Autofluor	Oral Rat LD50 (mg/kg):	5455
Autofluor	Dermal Rabbit LD50 (mg/kg):	not available

### Component Cancer List Status

	NTP Carcinogen		
	Known	Anticipated	IARC Category

Proprietary Phosphor	No	No	none
Water	No	No	None

## 12. Ecological Information

### Proprietary Phosphor

No information available.

### Water

Not applicable.

## 13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

## 14. Transport Information

### D.O.T.

Proper Shipping Name: not regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### I.A.T.A.

Proper Shipping Name: not regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### I.M.O.

Proper Shipping Name: not regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

## 15. Regulatory Information

### United States

#### TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

#### SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Proprietary Phosphor	No	No	No	No	Yes
Water	No	No	No	No	No

### Europe

#### EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

## 16. Other Information

**NFPA Codes:    Health 1    Flammability 0    Reactivity 0**

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