

# MATERIAL SAFETY DATA SHEET

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

## 1. Chemical Product and Company Identification

**Product Name:** Opticlear S2

**Product Number:** OE-107

### Chemical

**Names/Description:** Hydrocarbon Blend

### 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)
Hydrocarbon Blend	100	64742-47-8		300 ppm

## EEC LABEL SYMBOL AND CLASSIFICATION



**R: 38** Irritating to skin. **S: (2-) 23-62** Keep out of the reach of children. Do not breathe fumes. If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

## 3. Hazards Identification

### Appearance and Odor

Clear colorless liquid.

### EMERGENCY OVERVIEW - IMMEDIATE HAZARD

COMBUSTIBLE LIQUID. PRODUCT IS SLIGHTLY IRRITATING TO EYES (NO INJURY). HIGH VAPOR MAY CAUSE RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, OR DEATH. INGESTION: MINIMAL TOXICITY. ASPIRATION MAY LEAD TO PULMONARY INJURY AND DEATH.

### EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING

NO CHRONIC HAZARDS SUSPECTED.

### Potential Health Effects

#### Inhalation

High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

#### Ingestion

Minimal toxicity by ingestion, though small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

**Skin**

Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

**Eyes**

Slightly irritating but does not injure eye tissue.

**Signs and Symptoms of Overexposure**

**Inhalation**

Headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

**Ingestion**

Minimal toxicity by ingestion.

**Skin**

Dermatitis may occur with frequent or prolonged contact.

**Eyes**

Product is only slightly irritating to eye tissue, non injurious.

**Carcinogenicity**

Not listed by NTP, IARC, or OSHA.

**Mutagenicity**

No information available.

**Reproductive Toxicity**

No information available.

**Teratogenic Effects**

No information available.

**Routes of Entry**

Inhalation or by skin contact.

**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**

Do not induce vomiting. If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

**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	177 F	Flammable Limits	LEL: 1.3%, UEL: 8.8%
Flash Point Method	PMCC*	Autoignition temperature	640 F

\* Flash point value determined by Pensky-Martin Closed Cup method (PMCC). Upon request, alternate Tagliabue Closed Cup data (TCC) has been provided in some instances to local regulatory agencies.

**Extinguishing media**

Dry powder, foam, carbon dioxide. (Water may be ineffective.)

## **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**

Flammable liquid. Vapor forms explosive mixtures with air. Vapor may travel considerable distances to ignition source and flash back.

NFPA Codes: Health 1 Flammability 2 Reactivity 0

## 6. Accidental Release Measures

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

Eliminate source of ignition. Ventilate area. Cover with absorbent material (soda ash) to confine spill and sweep or shovel into container. Close container tightly. Avoid breathing vapors.

### **Waste Disposal Method**

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

### **Personal Precautions**

Wear appropriate protective equipment as specified in section 8.

## 7. Handling and Storage

### **Handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Transfer methods should avoid static sparks. Use explosion proof ventilation.

### **Storage**

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials (section 10).

### **Storage Temperature**

Room Temperature

### **Disposal**

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits**

Component: Hydrocarbon Blend

ACGIH Threshold Limit Value (TLV): 300 ppm

OSHA Permissible Exposure Limit

(PEL):

### **Engineering Controls**

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

### **Respiratory Protection**

If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus.

### **Eye Protection**

Safety glasses.

### **Skin Protection**

Wear protective gloves and clean body covering clothing.

## Other Control Measures

N.A.

## 9. Physical Properties

<b>Boiling point</b>	424 - 484 F	<b>Evaporation rate</b>	
<b>Melting point</b>	Less than -76 F	<b>Solubility in water</b>	Less than 0.01% @77F
<b>Vapor pressure (mmHg)</b>		<b>pH</b>	N.A.
<b>Vapor density (Air = 1)</b>	5.9	<b>Specific gravity (H2O = 1)</b>	0.79 @ 60 F
<b>% volatile by volume</b>	100		

## 10. Stability and Reactivity

### Stability

Stable under normal conditions of use.

### Conditions to Avoid

Heat, sources of ignition.

### Hazardous Decomposition Products

None

### Hazardous Polymerization

Will not occur

### Incompatibles

Hydrocarbon Blend:

Strong oxidizing agents.

## 11. Toxicological Information

### Product LD50 Values

Opticlear S2	Oral Rat LD50 (mg/kg):	Minimal toxicity by ingestion.
Opticlear S2	Dermal Rabbit LD50 (mg/kg):	Minimal toxicity by skin contact.

### Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Hydrocarbon Blend	No	No	None

## 12. Ecological Information

### Hydrocarbon Blend

No specific ecological data is available for this material. Please refer to Section 6 for information regarding accidental releases.

## 13. Disposal Considerations

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

## 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
Hydrocarbon Blend	Yes	No	No	No	No

**Europe****EEC Regulatory**

All intentional ingredients are listed on the European EINECS Inventory.

**EEC LABEL SYMBOL AND CLASSIFICATION**

**R: 38**Irritating to skin.**S: (2-) 23-62**Keep out of the reach of children. Do not breathe fumes. If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

**16. Other Information**

**NFPA Codes: Health 1 Flammability 2 Reactivity 0**

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents.

Appropriate warnings and safe handling procedures should be provided to handlers and users.