

# **MATERIAL SAFETY DATA SHEET**

# **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: OptiClear R

PRODUCT NUMBER: OE-102

CHEMICAL NAMES/ Mixture of food oil distillates, corn alcohol and water. DESCRIPTION:

MANUFACTURER: National Diagnostics, Inc.

305 Patton Drive Atlanta, GA 30336 TELEPHONE NUMBER: (800) 526-3867 (404) 699-2121 EMERGENCY NUMBER:

CHEMTREC (800) 424-9300

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	% Comp	CAS #	EINECS #	TLV (units)
Corn Alcohol	15 - 20	64-17-5		1000 ppm
Proprietary Solvent	2 - 4			400 ppm
Distilled essential oils - food grade	< 1			GRAS

# 3. HAZARDS IDENTIFICATION

**APPEARANCE AND ODOR:** Colorless, mobile liquid with slight citrus odor.

# EMERGENCY OVERVIEW - IMMEDIATE HAZARD

MAY BE HARMFUL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. CAUSES EYE, AND UPPER RESPIRATORY TRACT IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

# EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING

CHRONIC EFFECTS INCLUDE DAMAGE TO THE LIVER, DAMAGE TO THE HEART, DAMAGE TO THE KIDNEYS.

# POTENTIAL HEALTH EFFECTS

INHALATION

Can cause irritation to the lungs and upper respiratory tract. May cause headache or fatigue.

# INGESTION

May cause irritation or central nervous system effects if swallowed.

SKIN

May cause drying or irritation to the skin.

# EYES

May cause irritation to the eyes.

# SIGNS AND SYMPTOMS OF OVEREXPOSURE

INHALATION

Cough. Drowsiness. Headache. Fatigue.

INGESTION

Burning sensation. Confusion. Dizziness. Headache. Unconsciousness.

# SKIN

Dry skin.

# EYES

Redness. Pain. Burning.

### CARCINOGENICITY

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

#### MUTAGENICITY

No information available.

#### **REPRODUCTIVE TOXICITY**

Consumption during pregnancy may adversely affect the unborn child.

#### **TERATOGENIC EFFECTS**

No information available.

#### **ROUTES OF ENTRY**

Inhalation, ingestion, skin contact.

#### **TARGET ORGAN STATEMENT**

Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

# 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:	142 F	FLAMMABLE LIMITS:	N.A.
FLASH POINT METHOD:	TCC	<b>AUTOIGNITION TEMPERATURE:</b>	N.A.

#### **EXTINGHISHING 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

Above flashpoint, vapor air mixtures are explosive. Vapors can flow along surfaces to distant ignition source and flash back. Sealed containers may rupture when heated.

NFPA CODES: Health: 1 Flammability: 2 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**

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.

#### 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 disposal.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**AIRBORNE EXPOSURE LIMITS:** 

Component: Corn Alcohol

ACGIH Threshold Limit Value (TLV): 1000 ppm

**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**

If exposure limits are exceeded, wear a full-face respirator with organic vapor cartridge and high efficiency dust mist filter. Beyond fifty times exposure limits or when exposure levels are not known, wear a full-face piece positive pressure 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**

N.A.

# 9. PHYSICAL PROPERTIES

<b>Boiling Point</b>	180 F	Evaporation Rate	2.0 (Bu Acetate = 1)
Melting Point	N.A.	Solubility in Water	Soluble
Vapor Pressure mm Hg	58 mm Hg @ 38C	рН	N.A.
Vapor Density Air = 1	1.5 (air = 1)	Specific Gravity (H20 = 1)	0.94

% Volatile by Volume 100

# **10. STABILITY AND REACTIVITY**

STABILITY

Stable under normal conditions of use and storess

### **CONDITIONS TO AVOID**

Heat, flame, incompatibles.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide and carbon monoxide may form when heated to decomposition.

#### HAZARDOUS POLYMERIZATION

Will not occur

#### INCOMPATIBLES

#### **Corn Alcohol**

Strong oxidants, silver salts, acid chlorides, alkali metals, hydrazine, and many other substances.

#### **Proprietary Solvent**

Strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxidesulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.

#### Distilled essential oils - food grade

Avoid contact with strong acids, alkalis, or oxidizing agents.

# **11. TOXICOLOGICAL INFORMATION**

### **PRODUCT LD50 VALUES**

OptiClear R	Oral Rat LD50 (mg/kg):	39222
OptiClear R	Dermal Rabbit LD50 (mg/kg):	No Data

### **COMPONENT CANCER LIST STATUS**

Component	NTP Ca		
	Known	Anticipated	IARC Category
Corn Alcohol	No	No	None
Proprietary Solvent	No	No	3
Distilled essential oils - food grade	No	No	None

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# **12. ECOLOGICAL INFORMATION**

#### Corn Alcohol

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is expected to readily biodegrade. When released into water, this material may evaporate to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by dry and wet deposition. When released into the air, this material is expected to have a half-life between 1 and 10 days. This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

### **Proprietary Solvent**

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected from the atmosphere to a moderate extent by wet deposition. The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

#### Distilled essential oils - food grade

No information available on the ecological fate of this material.

# **13. DISPOSAL CONSIDERATIONS**

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

# **14. TRANSPORT INFORMATION**

# Domestic (D.O.T.)

Proper Shipping Name: Not regulated.

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

## International (I.A.T.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:**

All intentional ingredients are listed on the TSCA Inventory.

### SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Corn Alcohol	Yes	No	No	Yes	Yes
Proprietary Solvent	Yes	No	No	Yes	Yes
Distilled essential oils - food grade	Yes	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: 2 Reactivity: 0

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of 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.