# NORLAND PRODUCTS INCORPORATED

1095 Cranbury South River Road – Suite 20 Jamesburg, NJ 08831 Tel • 609-395-1966 Fax • 609-395-9006

# SAFETY DATA SHEET

For Emergency: Telephone (609) 395-1966 Date Prepared: November 12, 2024

#### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

TRADE NAME: Norland Optical Adhesive 81

TRADE CODE: NOA 81

PRODUCT USE: Ultraviolet Light Curing Adhesive

MANUFACTURER & SUPPLIER: NORLAND PRODUCTS INC

1095 Cranbury South River Road – Suite 20

Jamesburg, NJ 08831 USA

TELEPHONE: (609) 395-1966 FAX: (609) 395-9006

EMAIL: SDS@norlandproducts.com

#### 2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture GHS-US Classification

Acute Oral Toxicity: Cat. 4
Skin Sensitization: Cat. 1A
Eye Damage/Irritation: Cat. 2A
Acute Aquatic Toxicity: Cat. 1

Specific Organ Toxicity:

Single Exposure: Cat. 2 (Central Nervous System)

Repeated Exposure: Cat. 1 (Liver)

Pictogram







Signal Word: Warning

#### 2.2 Label Elements GHS-US Labeling

Hazard Statements (GHS-US)
H302 Harmful if Swallowed

H317 May Cause an Allergic Skin Reaction

H319 Causes Serious Eye Irritation

H410 Very Toxic to Aquatic Life with Long Lasting Effects
 H371 May Cause Damage to Organs (Central Nervous System)

H372 Causes Damage to Organs (Liver) Through Prolonged or Repeated Exposure

**Precautionary Statements:** 

P301+P316 If Swallowed: Get Emergency Medical Help Immediately

P305+ P351+P338 If in Eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Seek medical

attention.

P260 Do No Breathe dust/fume/gas/mist/vapor/spray

P280 Wear Protective Gloves/protective clothing/eye protection/face protection
P501 Dispose of contents/container in accordance with local, regional, national and

international regulations

P403+ P233+ P235 Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Other Hazard: None Known

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature: Urethane related resin based formulation

Composition: Cas#: Content: GHS-US Classifications

Mercapto Ester Trade Secret 50-65% H302 Cat. 4 Harmful If Swallowed

H317 Cat. 3 Skin SensitizationH319 Cat. 2A Eye Damage/ IrritationH410 Cat. 1 Acute Aquatic Toxicity

Triallyl Isocyanuarte 1025-15-6 30-55% H302 Cat. 4 Harmful If Swallowed

H371 Cat. 2 May Cause Damage to Organs

(Central Nervous System)

H372 Cat. 1 Causes Damage to Organs

through prolonged or repeated

exposure (liver)

4. FIRST AID MEASURES First Aiders should wear gloves/protective clothes & eye/face protection

In Case of Inhalation: If tightness in the chest, irritation, or coughing occurs, remove to fresh air.

Get Medical attention if symptoms persist.

In Case of Splashes in Eye: If the material gets in the eyes, immediately wash the eyes with copious

amounts of water, occasionally lifting the lower and upper eyelids.

Continue for 15 minutes and get Medical attention immediately.

In Case of Skin Contact: If the material gets on the skin, immediately wash the area with soap and

water and flush with water. If irritation develops, get Medical attention.

In Case of Clothes Splattering: Discard or wash contaminated clothing before reuse.

In Case of Ingestion: If material has been swallowed, dilute with milk or water if the victim is

alert. See doctor as soon as possible.

First Aiders should wear gloves, protective clothing, eye/face protection if there is a potential for exposure

to Liquid product.

#### 5. **FIRE-FIGHTING MEASURES**

Extinguishing Media Recommended: Carbon Dioxide, foam, dry chemical

Extinguishing Media Inadvisable: Water. Jets of Water from fire hose

Special Hazards: None

Hazardous Decomposition/Combustion

Products: Could generate carbon monoxide, carbon dioxide, sulfur dioxide

or Hydrogen sulfide

Special Protection Equipment: A Self-contained breathing apparatus

#### 6. ACCIDENTAL RELEASE MEASURES

Measures For Personal Safety:

GLOVES: Use gloves made from an impervious material (e.g. nitrile, butyl, or latex rubber)

latex rubber may soften and become pervious if also exposed to organic solvents

RESPIRATOR: Not required under normal operating conditions. Respiratory protection may be

needed in unusual circumstances where significant exposure to fumes or mists can occur. A NIOSH approved air purifying respirator with an organic vapor cartridge would be recommended. Use must comply with OSHA (29 CFR 1910.134) and

other regulatory standards.

EYE: Wear Safety Glasses

FOOTWEAR: Impervious shoes (e.g. leather, not cloth or sandals)

### Ventilation Requirements:

A Fume Hood is not generally required. The room should have adequate ventilation to avoid potential for concentration of mist or vapors.

#### **Environmental Measures:**

Stop the product from entering the drainage system and the natural environment. Limit leakage with Earth.

### Cleaning Methods:

Recovery: Absorb material with paper towel or other absorbent. Place in container for

disposal. If possible, expose absorbed resin to UV light or sunlight to

solidify resin.

Cleaning/Decontamination: Clean up with soap and water

Elimination: Eliminate according to local and national regulations

#### 7. HANDLING AND STORAGE

Handling:

Technical Measures; Do not reuse container. This product is for Industrial use only. Practice

good housekeeping and vigorous personal hygiene to minimize contact

with material.

Precautions to Take: Avoid Contact with skin and eyes

Storage: Store at 5°C to 25°C Keep away from Sunlight

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Precautionary Measure: None

Exposure Limits: None

Protective Personal Equipment:

Respiratory: Not needed with normal use

Protection for hands: Use gloves made from an impervious material (e.g. nitrile, butyl or

latex rubber. Latex rubber may soften and become pervious if also

exposed to organic solvents.

Eye Protection: Wear Safety Glasses

Protection from Skin: Wear Clothing that provides protection to skin

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Color: Clear Liquid
Odor: Slight Sulfur Odor
pH: No Data Available
Melting Point: No Data Available
Boiling Point: No Data Available

Decomposition Temperature: >300°C Flash Point: 175°C

Auto Ignition Temperature: No Data Available

Explosive Properties: None Oxidizing Properties: None

Vapor Pressure: <0.1 @ 20°C

Density: >1

Solubility/Miscibility:

Solubility in Water: Not miscible

Viscosity: 250 to 350 CPS @ 25°C

#### 10. STABILITY AND REACTIVITY

Conditions to Avoid: Keep away from UV and Sunlight. Temperatures above 65°C may

cause exothermic non-hazardous polymerization.

Substances to Avoid: None

Hazardous Decomposition

Products: None

#### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: LD50 Oral (Rat): 1,000-2,000 mg/kg

Method: OECD Test Guidelines 423

Inhalation: LC50 (Rat) >3.6v mg/l

Method: OECD Test Guidelines 403

Local Effects:

On Skin: Slight irritating to skin On Eyes: Irritating to eyes

Long Term Toxicity:

Skin Contact: May cause sensitization by skin contact

Reproductive Toxicity: No Data Available

# 12. ECOLOGICAL INFORMATION

Toxicity to Fish: LC50 (Oncorhynchus Mykiss (rainbow trout): 0.42 mg/l

Method: OECD Test Guidelines 203

Toxicity to Daphnia & Other: EC50 (Daphnia Magna (Water Flea): 0.35 mg/l

Mobility: Cured adhesives are immobile

General Ecological: Do Not empty liquid into drains or ground water

#### 13. DISPOSAL CONSIDERATION

Disposal Methods for Product and Waste:

Send to authorized disposal plants or for incineration under controlled conditions

Disposal Methods for Contaminated Packaging:

Do not reuse package. Send to authorized disposal plants or for incineration under controlled Conditions.

You should comply with the local and national regulations in force when disposing.

# 14. TRANSPORTATION INFORMATION

**International Regulations:** 

IATA-DGR UN/ID No. UN 3082 Environmentally Hazardous Substance: liquid Class 9

Packing Group: III, low danger (z),

Packing Instruction: (cargo aircraft): 964 (passenger aircraft): 964

IMDG-Code UN number: UN 3082 Environmentally Hazardous Subsance:

liquid packing group III, low danger (z)

#### 15. <u>REGULATORY INFORMATION</u>

Contains:

Urethane related adhesives

## **US Federal Regulations**

Unless otherwise noted, this product is in compliance with the inventory listing of the Countries shown below:

Europe (EINECS/ELINCS) Listed/Registered USA (TSCA) Listed/Registered Canada (DSL) Listed/Registered Australia (AICS) Listed/Registered Japan (MITI) Listed/Registered Korea (TCCL) Listed/Registered Philippines (PICCS) Listed/Registered China Listed/Registered

#### 16. OTHER INFORMATION

Custom Situation: Harmonized System (HTS/Schedule B) 3506.91.0000

Last Revision: June 28, 2022

Latest Revision: November 12, 2024