

NORLAND PRODUCTS INCORPORATED

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SAFETY DATA SHEET

For information or emergency: Telephone (609)395-1966 Date prepared: March 12, 2021

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

TRADE NAME: Norland Optical Adhesive 74

TRADE CODE: NOA 74

PRODUCT USE: Ultraviolet Curing Adhesive

MANUFACTURER: Norland Products Inc

2540 Route 130, Bldg. 100 Cranbury, NJ 08512 USA

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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

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

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

P313: If skin irritation occurs: Get medical advice/attention.

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.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Urethane related resin based formulation.

Composition:	Cas#	Content	GHS-US Classification
Mercapto Ester	Trade Secret	30-50%	H302 Cat.4 Acute Oral Toxicity
			H317 Cat.3 Sensitization, Skin.
Triallyl	1025-15-6	15-30%	H319 Cat.2A Eye Damage/Irritation
Isocyanuarte			H410 Cat.1 Acute Aquatic Toxicity
Isodecyl	1330-61-6	4-15%	H302 Cat 4 Acute Oral Toxicity
Acrylate			
<pre>Poly[oxy(methyl-1,2-ethanediyl)],</pre>			H317 Cat.3 Sensitization, Skin
hydro[(1-oxo-2-propen-1-yl)oxy]-,			H335 Cat.3 Respiratory Tract
ether with 2-ethyl-2-(hydroxymethyl)-			Irritation
1,3-propanediol (3:1) 53879-54-2 15-35%			H411 Cat.2 Aquatic Toxicity
			H317 Cat.3 Sensitization, Skin

4. FIRST AID MEASURES

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.

the area with soap and water and flush with water. If irritation develops, get medical attention.

In case of clothing spattering: Discard or wash contaminated clothing before reuse.

In case of ingestion: If the 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 protective 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 then 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 the 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 protection: 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: 80-95 cps @ 25°C

10: STABILITY AND REACTIVITY

Conditions to avoid: Keep away from UV and sunlight. Temperatures

above 65°C may cause exothermic nonhazardous

polymerization.

Substances to avoid: None Hazardous decomposition products: None

11: TOXICOLOGICAL INFORMATION

Acute toxicity:

Ingestion: LD50 Oral (Rat): 1,000-2000 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)) 0.35mg/l

Toxicity to algae: (Pseudokirchneriella subcapitata (algae)):

Method: OECD Test Guideline 201

Mobility: Cured adhesives are immobile.

General ecological: Do not empty liquid into drains or ground water.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Other adverse effects: No data available

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 Packing instruction (passenger aircraft):964

 $IMDG-Code\ UN\ number:\ UN\ 3082\ Environmentally\ Hazardous\ Substance:\ liquid\ Packing\ group:\ III,\ low\ danger(Z)$

15: REGULATORY INFORMATION

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)

USA (TSCA)

Canada (DSL)

Australia (AICS)

Japan (MITI)

Korea (TCCL)

Philippines (PICCS)

Listed/registered

Listed/registered

Listed/registered

Listed/registered

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Listed/registered

16: OTHER INFORMATION

Custom Situation: Harmonized System (HTS/Schedule B) 35.06.91.0000

Last revision: June 18, 2019

Latest revision: March 22, 2021

The information included in this Safety Data Sheet is correct to the best of Our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the test.