

Revision Date: 28-Sep-2018

**Revision Number:** 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Product Code Alternate Product Code Product Class Color Recommended use Restrictions on use

# DURALAQ NITROCELLULOSE LACQUER SATIN WHITE 1K01-9974 TR0474

LACQUER White Paint No information available

#### **Manufacturer**

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 1-866-708-9180 lenmar-coatings.com

# Emergency Telephone

CHEMTREC (US): 800-424-9300 CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 2

## Label elements

Danger

Hazard statements Causes skin irritation Causes serious eye damage Suspected of causing cancer Suspected of damaging fertility or the unborn child May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



Odor little or no odor

## **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

Skin

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

# Other information

No information available

# 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
Titanium dioxide	13463-67-7	25
n-Butyl acetate	123-86-4	20
Acetone	67-64-1	15
Toluene	108-88-3	10
cellulose, nitrate	9004-70-0	10
VM&P naphtha	64742-89-8	10
Isopropyl alcohol	67-63-0	5
2-Pentanone, 4-methyl-	108-10-1	5
Talc	14807-96-6	5
n-Butyl alcohol	71-36-3	5
Soybean oil, epoxidized	8013-07-8	5
Ethanol	64-17-5	5
Xylene	1330-20-7	5
Isobutyl alcohol	78-83-1	5
Silica, amorphous	7631-86-9	5
Ethyl benzene	100-41-4	0.5
Octane	111-65-9	0.5
Heptane	142-82-5	0.5

# 4. FIRST AID MEASURES

#### Description of first aid measures

General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Protection Of First-Aiders	Use personal protective equipment.

Most Important Symptoms/Effects	No information available.		
Notes To Physician	Treat symptomatically.		
	5. FIRE-FIGH	TING MEASURE	S
Flammable Properties			considerable distance to a source of ack. Vapors may cause flash fire.
Suitable Extinguishing Media			or water. Use extinguishing measures to local circumstances and the ament.
Protective Equipment And Pre Firefighters	cautions For		self-contained breathing apparatus MSHA/NIOSH (approved or equivalent) jear.
Hazardous combustion produce	cts		in carbon dioxide, carbon monoxide on products of varying composition and/or irritating.
Specific Hazards Arising From	The Chemical	distance. Keep proc heat and sources o rupture if exposed t	back possible over considerable duct and empty container away from f ignition. Closed containers may o fire or extreme heat. Thermal lead to release of irritating gases and
Sensitivity To Mechanical Imp	act	No	
Sensitivity To Static Discharge	9	Yes	
Flash Point Data Flash Point (°F) Flash Point (°C) Method		28 -2 PMCC	
Flammability Limits In Air			
Lower flammability limit: Upper flammability limit:		Not available Not available	
NFPA Health: 2	Flammability: 3	Instability: 1	Special: Not Applicable
NFPA Legend 0 - Not Hazardous 1 - Slightly 2 - Moderate 3 - High 4 - Severe			

4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.	
Other Information	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.	
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.	
	7. HANDLING AND STORAGE	
Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.	
	Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.	
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.	
Technical measures/Precaution	<b>ns</b> Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.	
	Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Limits**

# 1K01-9974 - DURALAQ NITROCELLULOSE LACQUER SATIN WHITE

Chemical name	ACGIH TLV	OSHA PEL
Titanium dioxide	10 mg/m <sup>3</sup> - TWA	15 mg/m³ - TWA
n-Butyl acetate	150 ppm - TWA	150 ppm - TWA
-	200 ppm - STEL	710 mg/m <sup>3</sup> - TWA
Acetone	250 ppm - TWA	1000 ppm - TWA
	500 ppm - STEL	2400 mg/m <sup>3</sup> - TWA
Toluene	20 ppm - TWA	200 ppm - TWA
		300 ppm - Ceiling
Isopropyl alcohol	200 ppm - TWA	400 ppm - TWA
	400 ppm - STEL	980 mg/m <sup>3</sup> - TWA
2-Pentanone, 4-methyl-	20 ppm - TWA	100 ppm - TWA
	75 ppm - STEL	410 mg/m <sup>3</sup> - TWA
Talc	2 mg/m³ - TWA	20 mppcf - TWA
n-Butyl alcohol	20 ppm - TWA	100 ppm - TWA
		300 mg/m <sup>3</sup> - TWA
Ethanol	1000 ppm - STEL	1000 ppm - TWA
		1900 mg/m <sup>3</sup> - TWA
Xylene	100 ppm - TWA	100 ppm - TWA
	150 ppm - STEL	435 mg/m <sup>3</sup> - TWA
Isobutyl alcohol	50 ppm - TWA	100 ppm - TWA
		300 mg/m³ - TWA
Silica, amorphous	N/E	20 mppcf - TWA
Ethyl benzene	20 ppm - TWA	100 ppm - TWA
-		435 mg/m <sup>3</sup> - TWA
Octane	300 ppm - TWA	500 ppm - TWA
		2350 mg/m <sup>3</sup> - TWA
Heptane	400 ppm - TWA	500 ppm - TWA
-	500 ppm - STEL	2000 mg/m <sup>3</sup> - TWA

Legend

#### Appropriate engineering controls **Engineering Measures** Ensure adequate ventilation, especially in confined areas. Personal Protective Equipment Eye/Face Protection Safety glasses with side-shields. Long sleeved clothing. Protective gloves. Skin Protection Use only with adequate ventilation. In operations where exposure limits are **Respiratory Protection** exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors. **Hygiene Measures** Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor Threshold liquid little or no odor No information available

Density (lbs/gal) **Specific Gravity** pН Viscosity (cps) Solubility(ies) Water solubility **Evaporation Rate** Vapor pressure @20 °C (kPa) Vapor density Wt. % Solids Vol. % Solids Wt. % Volatiles Vol. % Volatiles VOC Regulatory Limit (g/L) **Boiling Point (°F) Boiling Point (°C)** Freezing Point (°F) Freezing Point (°C) Flash Point (°F) Flash Point (°C) Method Flammability (solid, gas) Upper flammability limit: Lower flammability limit: Autoignition Temperature (°F) Autoignition Temperature (°C) **Decomposition Temperature (°F)** Decomposition Temperature (°C) Partition coefficient

9.2 - 9.6 1.11 - 1.15 No information available 40 - 50 20 - 30 50 - 60 70 - 80 < 680 132 56 No information available No information available 28 -2 PMCC Not applicable No information available No information available

# **10. STABILITY AND REACTIVITY**

Reactivity	No data available
Chemical Stability	Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions to avoid	Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors.
Possibility of hazardous reactions	None under normal conditions of use.

# 11. TOXICOLOGICAL INFORMATION

**Product Information** 

Information on likely routes of exposure		
Principal Routes of Exposure	Eye contact, skin contact and inhalation.	
Acute Toxicity		
Product Information	Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.	
Symptoms related to the physic	al, chemical and toxicological characteristics	
Symptoms	No information available	
Delayed and immediate effects	as well as chronic effects from short and long-term exposure	
Eye contact Skin contact	Severely irritating to eyes. May cause burns. Risk of serious damage to eyes. May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.	
Ingestion	Harmful if swallowed. Ingestion may cause irritation to mucous membranes. 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.	
Inhalation	Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.	
Sensitization	No information available	
Neurological Effects	No information available.	
Mutagenic Effects Reproductive Effects	No information available. Possible risk of impaired fertility. Possible risk of harm to the unborn child.	
Developmental Effects	No information available.	
Target organ effects	No information available.	
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure if inhaled. May cause disorder and damage to the. liver. kidney. spleen. blood. Central nervous system. Causes damage to organs through prolonged or repeated exposure.	
STOT - single exposure	May cause disorder and damage to the. Respiratory system. Central nervous system.	
Other adverse effects	No information available.	
Aspiration Hazard	May be harmful if swallowed and enters airways. 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.	

## Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	5207 mg/kg
ATEmix (dermal)	8490 mg/kg
ATEmix (inhalation-dust/mist)	34.3 mg/L
ATEmix (inhalation-vapor)	50 mg/L

Acute Toxicity

#### **Component Information**

Titanium dioxide LD50 Oral: > 10000 mg/kg (Rat) n-Butyl acetate LD50 Oral: 10768 mg/kg (Rat) LD50 Dermal: > 17600 mg/kg (Rabbit) LC50 Inhalation (Vapor): ppm (Rat, 4 hr.) Sensitization non-sensitizing (guinea pig) Acetone LD50 Oral: 5800 mg/kg (Rat) Toluene LD50 Oral: 636 mg/kg (Rat) LD50 Dermal: 14100 µL/kg (Rabbit) LC50 Inhalation (Vapor): 49000 mg/m<sup>3</sup> (Rat, 4 hr.) Isopropyl alcohol LD50 Oral: mg/kg (Rat) LD50 Dermal: mg/kg (Rabbit) LC50 Inhalation (Vapor): ppm (Rat) 2-Pentanone, 4-methyl-LD50 Oral: 2080-4600 mg/kg (Rat) LC50 Inhalation (Vapor): 100000 mg/m<sup>3</sup> n-Butyl alcohol LD50 Oral: 790 - 800 mg/kg (Rat) LD50 Dermal: 3400 mg/kg LC50 Inhalation (Vapor): 24000 mg/m<sup>3</sup> (Rat, 4 hr.) Ethanol LD50 Oral: mg/kg (Rat) LC50 Inhalation (Vapor): ppm (Rat, 10 hr.) **Xvlene** LD50 Oral: 4300 mg/kg (Rat) LD50 Dermal: > 1700 mg/kg (Rabbit) LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Isobutyl alcohol LD50 Oral: 2460 mg/kg (Rat) LD50 Dermal: 3400 mg/kg (Rabbit) LC50 Inhalation (Vapor): 19200 mg/m<sup>3</sup> (Rat, 4 hr.) Silica, amorphous LD50 Oral: > 5000 mg/kg (Rat) LD50 Dermal: 2,000 mg/kg (Rabbit) LC50 Inhalation (Dust): > 2 mg/L Ethyl benzene LD50 Oral: mg/kg (Rat) LD50 Dermal: > mg/kg (Rabbit) LC50 Inhalation (Vapor): mg/m<sup>3</sup> (Rat, 2 hr.) Heptane LC50 Inhalation (Vapor): 103000 mg/m<sup>3</sup> (Rat, 4 hr.)

#### **Carcinogenicity**

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

Chemical name	IARC	NTP	OSHA
	2B - Possible Human		Listed

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Titanium dioxide	Carcinogen	
	2B - Possible Human	Listed
2-Pentanone, 4-methyl-	Carcinogen	
	2B - Possible Human	Listed
Ethyl benzene	Carcinogen	

• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

#### Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity Effects**

The environmental impact of this product has not been fully investigated.

## Product Information

#### Acute Toxicity to Fish

No information available

#### Acute Toxicity to Aquatic Invertebrates

No information available

#### Acute Toxicity to Aquatic Plants

No information available

#### Persistence / Degradability

No information available.

#### **Bioaccumulation**

There is no data for this product.

## Mobility in Environmental Media

No information available.

#### <u>Ozone</u>

Not applicable

## **Component Information**

#### **Acute Toxicity to Fish**

No information available <u>Titanium dioxide</u> LC50: > 1000 mg/L (Fathead Minnow - 96 hr.) <u>n-Butyl acetate</u> LC50: 18 mg/L (Fathead Minnow - 96 hr.) <u>Acetone</u> LC50: 8300 (Bluegill - 96 hr.) mg/L <u>Xylene</u> LC50: 13.5 mg/L (Rainbow Trout - 96 hr.) <u>Ethyl benzene</u> LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

## Acute Toxicity to Aquatic Invertebrates

No information available <u>n-Butyl acetate</u> EC50: 72.8 mg/L (Daphnia magna - 48 hr.) <u>Acetone</u> EC50: 12600 mg/L (Daphnia magna - 48 hr.) <u>Ethyl benzene</u> EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

## Acute Toxicity to Aquatic Plants

No information available <u>n-Butyl acetate</u> EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.) <u>Ethyl benzene</u> EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.
Empty Container Warning	Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.
	14. TRANSPORT INFORMATION

DOT Proper Shipping Name Hazard class UN-No. Packing Group Description	PAINT 3 UN1263 II UN1263, PAINT, 3, II
ICAO / IATA	Contact the preparer for further information.
IMDG / IMO	Contact the preparer for further information.
	15. REGULATORY INFORMATION

# International Inventories

TSCA: United States	Yes - All components are listed or exempt.
DSL: Canada	Yes - All components are listed or exempt.

# Federal Regulations

#### SARA 311/312 hazardous categorization

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	Yes

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS No.	Weight-%	CERCLA/SARA 313 (de minimis concentration)
Toluene	108-88-3	10	1.0
Isopropyl alcohol	67-63-0	5	1.0
2-Pentanone, 4-methyl-	108-10-1	5	1.0
n-Butyl alcohol	71-36-3	5	1.0
Xylene	1330-20-7	5	1.0
Ethyl benzene	100-41-4	0.5	0.1

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical name	CAS No.	Weight-%	<u>Hazardous Air Pollutant</u> (HAP)
Toluene	108-88-3	10	Listed
2-Pentanone, 4-methyl-	108-10-1	5	Listed
Xylene	1330-20-7	5	Listed
Ethyl benzene	100-41-4	0.5	Listed

# US State Regulations

## **California Proposition 65**

MARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
Titanium dioxide	Х	Х	Х
n-Butyl acetate	Х	Х	Х
Acetone	Х	Х	Х
Toluene	Х	Х	Х
cellulose, nitrate	Х	Х	Х
Isopropyl alcohol	Х	Х	Х
2-Pentanone, 4-methyl-	Х	Х	Х
Talc	Х	Х	X
n-Butyl alcohol	X	Х	X

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Ethanol	X	Х	Х
Xylene	X	Х	Х
Isobutyl alcohol	X	Х	Х
Silica, amorphous	X	Х	Х

#### Legend

X - Listed

# **16. OTHER INFORMATION**

HMIS -	Health: 2*	Flammability:

3

Reactivity: 1 PPE: -

## **HMIS Legend**

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- \* Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By	Product Stewardship Department Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554
Revision Date:	28-Sep-2018
Revision Summary	Not available

Disclaimer

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END OF SAFETY DATA SHEET