

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Lustre Dry  
**Product Code:** 10068  
**Product Use:** High Gloss, Quick-Drying Citrus Coating  
**Product Restrictions:** Agriculture Use Only  
**Manufacturer/Importer/Supplier/Distributor information**  
**Manufacturer:** Pace International, LLC  
**Address:** 5661 Branch Road, Wapato, WA 98951  
**Phone Number:** 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)  
**Medical Emergency Phone Number:** 888-271-4649 (PROPHARMA/PROSAR)  
**Transportation Emergency Phone Number:** 800-424-9300 (CHEMTREC)  
**Supplier:** See above

### 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)  
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

<b>Classification:</b>	<b>Precautionary Statements:</b>
Physical Hazards: Not classified	<b>Prevention Statements:</b>
Health Hazards: Not classified	Use good industrial hygiene practices in handling this material.
Environmental Hazards: Not classified	<b>Response Statements:</b>
	Wash hands thoroughly after handling.
<b>Hazard Symbols:</b>	<b>Storage Statements:</b>
None	Store locked up. Store in a cool, dry, well-ventilated place, away from direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.
<b>Signal Word:</b>	<b>Disposal Statements:</b>
None	Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.
<b>Hazard Statements:</b>	None known.
The mixture does not meet the criteria for GHS classification.	None known.
<b>Other Hazards:</b>	
<b>Hazard(s) not otherwise classified (HNOC):</b>	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>CAS #</u>	<u>%</u>
Ammonium hydroxide	1336-21-6	0.1 – 5*
Isopropanol	67-63-0	1 – 5*
Morpholine	110-91-8	1 – 5*
Resin acids and rosin acids, fumarated, esters with pentaerythritol	94581-15-4	0.1 – 1*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** \*US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

### 4. FIRST AID MEASURES

**General** Have the product container, label or Safety Data Sheet with you when calling a poison control center, physician, or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.

**Advice:**

**Skin contact:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation persists; get medical advice/attention. Take off immediately all contaminated clothing. Wash before reuse.



<b>Eye contact:</b>	IF IN EYES: Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.
<b>Inhalation:</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion:</b>	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
<b>Most important Symptoms / effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Treat patient symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Foam. Dry chemical powder. Carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Special Hazards Arising from the Chemical:</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters:</b>	Firefighters must wear full protective clothing including self-contained breathing apparatus.
<b>Firefighting equipment/instructions:</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products:</b>	May include and are not limited to: Oxides of carbon, oxides of nitrogen and ammonia.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency procedures:</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, (see section 8 of the SDS).
<b>Methods and Materials for Containment and Clean-Up:</b>	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
<b>Environmental Precautions:</b>	Never return spills to original containers for re-use. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

## 7. HANDLING & STORAGE

<b>Precautions for safe handling</b>	Use good industrial hygiene practices in handling this material. DO NOT get in eyes, on skin or clothing. Avoid prolonged exposure. Use only with adequate ventilation. Keep container tightly closed. Wear appropriate personal protective equipment. Wash thoroughly after handling. When using, do not eat, drink or smoke.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Store in original tightly closed container. Store in a cool, dry, well-ventilated place, away from direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ammonium hydroxide (CAS 1336-21-6)	PEL	35 mg/m <sup>3</sup> 50 ppm
Isopropanol (CAS# 67-63-0)	PEL	980 mg/m <sup>3</sup> 400 ppm
Morpholine (CAS# 110-91-8)	PEL	70 mg/m <sup>3</sup> 20 ppm

### US. ACGIH Threshold Limit Values

Components	Type	Value
Ammonium hydroxide (CAS 1336-21-6)	STEL	35 ppm
	TWA	25 ppm
Isopropanol (CAS# 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Morpholine (CAS# 110-91-8)	TWA	20 ppm

### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ammonium hydroxide (CAS 1336-21-6)	STEL	27 mg/m <sup>3</sup> 35 ppm
	TWA	18 mg/m <sup>3</sup> 25 ppm
Isopropanol (CAS# 67-63-0)	STEL	1225 mg/m <sup>3</sup> 500 ppm
	TWA	980 mg/m <sup>3</sup> 400 ppm
Morpholine (CAS# 110-91-8)	STEL	105 mg/m <sup>3</sup> 30 ppm
	TWA	70 mg/m <sup>3</sup> 20 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS# 67-63-0)	40 mg/L	Acetone	Urine	*

\* - For sampling details, please see the source document.

#### US ACGIH Threshold Limit Values: Skin designation

Morpholine (CAS# 110-91-8) Danger of cutaneous absorption.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Morpholine (CAS# 110-91-8) Can be absorbed through the skin.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Morpholine (CAS# 110-91-8) Can be absorbed through the skin.

#### Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields (or goggles). Eye wash station and washing facilities should be available.

#### Skin protection

**Hand protection:** Wear nitrile, neoprene, vinyl (PVC), or rubber gloves.

**Other:** Wear protective clothing (long sleeved shirt, pants, and shoes).

#### Respiratory protection:

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)

#### Thermal hazards:

Not applicable.

#### General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.



**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical state:</b>	Liquid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Appearance / Color:</b>	White, opaque	<b>Vapor pressure:</b>	Not available
<b>Odor:</b>	Detergent	<b>Vapor density: (air =1)</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	.975
<b>pH:</b>	8.9	<b>Solubility:</b>	Miscible in water
<b>Melting/Freezing point:</b>	Not available	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Pour Point:</b>	Not available	<b>Auto-ignition temperature:</b>	Not available
<b>Initial boiling point and boiling range:</b>	213.8°F (101°C)	<b>Decomposition temperature:</b>	Not available
<b>Flash point:</b>	Not flammable	<b>Viscosity:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Explosive properties:</b>	Not explosive.
<b>Flammability (solid, gas):</b>	Not applicable	<b>Oxidizing properties:</b>	Not oxidizing.

**10. STABILITY & REACTIVITY**

<b>Reactivity hazards:</b>	This product may react with strong oxidizing agents.
<b>Possibility of Hazardous Reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability:</b>	Material is stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	May include and are not limited to: Oxides of carbon, oxides of nitrogen, ammonia.

**11. TOXICOLOGICAL INFORMATION**

<b>Routes of exposure:</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b>	Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects**

**Acute toxicity**

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Ammonium hydroxide (CAS 1336-21-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Mouse	2115 ppm, 4 h, Cheminfo
	Rat	2000 ppm, 4 h, Cheminfo
<i>Oral</i>		
LD50	Rat	350 mg/kg, HSDB
Isopropanol (CAS# 67-63-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	13900 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Rat	25000 mg/m3, 6 hours, ECHA 16970 mg/l/4h, HMIRA
<i>Oral</i>		
LD50	Rat	5840 mg/kg, ECHA



Morpholine (CAS# 110-91-8)

**Acute**

*Dermal*

LD50

Rabbit

500 mg/kg, 24 Hours, ECHA

*Inhalation*

LC50

Rat

8 mg/L, ECHA

*Oral*

LD50

Rat

1900 mg/kg, ECHA

Resin acids and rosin acids, fumarated, esters with pentaerythritol

**Acute**

*Dermal*

LD50

Rat

>2000 mg/kg, 24 Hours, ECHA

*Inhalation*

LC50

Not available

*Oral*

LD50

Rat

>5000 mg/kg, ECHA

>2000 mg/kg, ECHA

**Skin corrosion/irritation:**

Prolonged skin contact may cause temporary irritation.

**Exposure minutes**

Not available

**Erythema value**

Not available

**Oedema value**

Not available

**Serious eye damage/eye irritation:**

Direct contact with eyes may cause temporary irritation.

**Respiratory sensitization:**

This product is not a respiratory sensitization.

**Skin sensitization:**

This product is not expected to cause skin sensitization.

**Mutagenicity:**

Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:**

See below

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Morpholine (CAS# 110-91-8)

Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052):**

Not listed.

**Reproductive toxicity:**

This product is not expected to cause reproductive or developmental effects.

Non-hazardous by WHMIS/OSHA criteria.

Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity:**

Not available.

**Specific target organ toxicity - single exposure:**

Not available.

**Specific target organ toxicity - repeated exposure:**

Not classified.

**Aspiration hazard:**

Not classified.

**Chronic effects:**

Prolonged inhalation may be harmful.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

See below

**Ecotoxicological data**

**Species**

**Ecotoxicity**

**Test Results**

**Components**

Ammonium hydroxide (CAS 1336-21-6)

Crustacea

EC50

Daphnia

0.66 mg/L, 48 hours

**Aquatic**

Fish

LC50

Western mosquitofish (*Gambusia affinis*)

15 mg/L, 96 hours

Isopropanol (CAS# 67-63-0)

Algae

IC50

Algae

1000 mg/L, 72 Hours

Crustacea

EC50

Daphnia

13299 mg/L, 48 hours

**Aquatic**

Fish

LC50

Bluegill (*Lepomis macrochirus*)

>1400 mg/L, 96 hours

Morpholine (CAS# 110-91-8)

**Aquatic**

Fish

LC50

Zebra danio (*Danio rerio*)

>1 mg/L, 96 hours

**Persistence/ degradability:**

No data is available on the degradability of this product.

**Bioaccumulative potential**

Not available.

**Mobility in soil:**

No data available.

**Mobility in general:**

Not available.

**Other adverse effects:**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



### 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods:</b>	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
<b>Hazardous waste code</b>	This product, in its original form and concentration, would not designate as a US federal hazardous waste when disposed
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

<b>Transport of Dangerous Goods (TDG) Proof of Classification</b>	Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.
<b>U.S. Department of Transportation (DOT)</b>	Not regulated as dangerous goods.

### 15. REGULATORY INFORMATION

**US FEDERAL REGULATIONS** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
 Ammonium hydroxide (CAS 1336-21-6) Listed.  
 Isopropanol (CAS# 67-63-0) Listed  
 Morpholine (CAS# 110-91-8) Listed

**SARA 304 Emergency Release Notification**  
Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**  
Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>SARA 302 Extremely hazardous substance</b>	No
<b>SARA 311/312 Hazardous chemical</b>	No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Ammonium hydroxide	1336-21-6	0.1-5*
Isopropanol	67-63-0	1-5*

**US STATE REGULATIONS**

**US - California Hazardous Substances (Director's):**

Ammonium hydroxide (CAS# 1336-21-6)	Listed
Isopropanol (CAS# 67-63-0)	Listed
Morpholine (CAS# 110-91-8)	Listed

**US - Illinois Chemical Safety Act: Listed substance**

Ammonium hydroxide (CAS# 1336-21-6)	
Isopropanol (CAS# 67-63-0)	
Morpholine (CAS# 110-91-8)	

**US - Louisiana Spill Reporting: Listed substance**

Ammonium hydroxide (CAS# 1336-21-6)	Listed
Isopropanol (CAS# 67-63-0)	Listed
Morpholine (CAS# 110-91-8)	Listed

**US - Minnesota Haz Subs: Listed substance**

Isopropanol (CAS# 67-63-0)	Listed
Morpholine (CAS# 110-91-8)	Listed

**US - Texas Effects Screening Levels: Listed substance**

Ammonium hydroxide (CAS# 1336-21-6)	Listed
Isopropanol (CAS# 67-63-0)	Listed
Morpholine (CAS# 110-91-8)	Listed



**US. Massachusetts RTK - Substance List**

Ammonium hydroxide (CAS# 1336-21-6)  
Isopropanol (CAS# 67-63-0)  
Morpholine (CAS# 110-91-8)

**US. New Jersey Worker and Community Right-to-Know Act**

Ammonium hydroxide (CAS# 1336-21-6)  
Isopropanol (CAS# 67-63-0)  
Morpholine (CAS# 110-91-8)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Ammonium hydroxide (CAS# 1336-21-6)  
Isopropanol (CAS# 67-63-0)  
Morpholine (CAS# 110-91-8)

**US. Rhode Island RTK**

Isopropanol (CAS# 67-63-0)  
Morpholine (CAS# 110-91-8)

**US. California Proposition 65**

Not listed

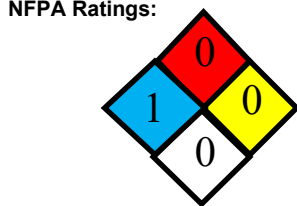
**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. OTHER INFORMATION**

**HMIS Ratings:** Health – 1 Flammability – 0 Reactivity – 0



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

**SDS preparation date:** December 18, 2020 **Replaces MSDS dated:** December 1, 2020

**Changes since last revision:** Section 3 & 11 **Version:** 4

