



Safety Data Sheet

Preparation Date No Data Available

Revision date 08-Dec-2015

Revision Number: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: APL LUSTR® 225

Other means of identification

Item#: 24-225

Synonyms Not Available

Recommended use of the chemical and restrictions on use

Recommended use Apple wax coating.

Uses advised against No information available

Details of the Supplier of the Safety Data Sheet

Emergency telephone number

2. Hazards Identification

Classification

OSHA Regulatory Status

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

Label elements

EMERGENCY OVERVIEW

appearance amber

Physical state liquid

Odor Alcohol odor

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

3. Composition/information on Ingredients

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

Inhalation

Move to fresh air. MAY CAUSE ALLERGIC RESPIRATORY REACTION. Call a poison control center or doctor for further treatment advice.

Ingestion Call a physician or poison control center for treatment advice. May produce an allergic reaction. Clean mouth with water. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects Hives.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon monoxide. Oxides of nitrogen. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, and other flames and ignition sources at locations distant from material handling point.

Explosion data

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Avoid contact with the skin and the eyes. Use personal protective equipment. Take precautionary measures against static discharges.

Environmental Precautions

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up Remove all ignition sources. Use non-sparking tools. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Ground and bond containers when transferring material. Take precautionary measures against static discharges.

7. Handling and Storage

Precautions for safe handling

Handling Keep out of reach of children. Remove all sources of ignition. Wear personal protective equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Check that all equipment is properly bonded and grounded. Empty containers may contain hazardous residues. Avoid contact with skin and eyes. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage	Keep out of the reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.
incompatible materials	Acids. Strong bases.

8. Exposure Controls/Personal Protection**Exposure guidelines**

Engineering controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.
-----------------------------	--

Personal protective equipment**Eye/Face Protection**

Goggles. If splashes are likely to occur, wear:. Eye/Face Protection.

Skin protection

Rubber gloves. Wear protective gloves/clothing.

Respiratory protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Wash hands and face before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state	liquid	Odor	Alcohol odor
appearance	amber		
color	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
pH	8.5	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	75 F	Pensky Martin Closed Cup
Evaporation Rate	No information available	
flammability (solid, gas)	No information available	
Flammability limit in air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
vapor pressure	No information available	
Vapor Density	No information available	
Specific gravity	1.01	
Water solubility	No information available	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	

Oxidizing properties No information available

OTHER INFORMATION

Softening point No information available
molecular weight No information available
VOC Content No information available
density No information available
Bulk density 8.428 lb/gal

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Keep away from children.

incompatible materials

Acids. Strong bases.

Hazardous decomposition products

Carbon monoxide. Nitrogen oxides (NOx).

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation	There is no data available for this product.
Eye contact	There is no data available for this product.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Component Information

Isopropanol: No skin irritation was reported in humans following a single 24 hour exposure. Low doses (2.6 and 6.4 mg) given daily to human volunteers orally for 6 weeks was without adverse effects on the blood. Signs of toxicity in rodents following single oral or inhalation exposures included sensory irritation, liver effects, narcosis and CNS depression. Skin irritation and injury were observed in rabbits following repeated skin application, while sensory irritation, liver and kidney changes and narcosis were observed in rats and mice following repeated inhalation. No signs of nervous system toxicity were observed in rats or mice following repeated inhalation in rats following repeated administration in drinking water. No adverse effects were observed in dogs following repeated administration in drinking, while a decrease in body weight gain was the only adverse effect reported in rats. Long-term skin application produced no skin tumors in mice. No increase in lung tumors occurred in mice after long-term inhalation. No signs of neurotoxicity or developmental toxicity were noted in the offspring of rats exposed orally during pregnancy. No birth defects were noted in the offspring of rats and rabbits exposed orally during pregnancy, even at amounts which produced toxic effects in the mothers and offspring. Birth defects were reported in the offspring of rats exposed by inhalation during pregnancy, but only at levels which produced significant adverse effects on the mothers. No genetic changes were observed in tests using bacteria or animal cells or animals. Single exposure studies indicate that this material is slightly to practically non-toxic if swallowed (rat LD50 4,475-7,990 mg/kg) practically non-toxic if absorbed through the skin (rabbit LD50 6,300-13,000 mg/kg) or inhaled (rat 8 hr LC50 51 mg/l), moderately irritating to rabbit eyes (15.8-27/110) and slightly irritating to rabbit skin (4 hr exposure 2/8)

Potassium hydroxide Solutions are highly alkaline and are able to rapidly dissolve and destroy tissue upon contact. There are numerous reports of accidental or suicidal ingestion of this material. Death results from shock, perforation of the esophagus, pneumonitis and infection. There are also reports of accidental splashed to the eyes and skin causing corrosive tissue damage. Repeated overexposure by inhalation is usually self-limited by sneezing, causing coughing and respiratory discomfort; however, lesions of the nasal septum have been reported from workplace exposure. Long-term application to the skin of mice has resulted in increased skin tumor formation. Single exposure studies indicate that this material is moderately toxic if swallowed (rat LD50 273-388 mg/kg) and corrosive to rabbit eyes and skin.

Ammonium hydroxide

Single exposure studies indicate that this material is slightly toxic if swallowed (rat LD50 700 mg/kg, 1% solution) and corrosive to eyes and skin. Moderate skin irritation was reported in human volunteers following 4 hr contact with a 10% solution. Skin contact with a 50% solution resulted in painless blisters in 6-12 minutes. Following repeated inhalation in rats, mild nasal discharge, eye irritation, corneal opacities, lung inflammation and death were observed. Life-time administration in drinking water produced no increased incidence of tumors in two strains of mice. Additionally, no increase in tumors was noted in life-time inhalation studies in mice. No birth defects were noted in the offspring of rats following skin applications of hair dye formulations containing 9-29% of this material during pregnancy. Weak genetic changes were observed in tests using bacteria.

Information on Toxicological Effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	The information below indicates whether any agency has listed any ingredient as a carcinogen.
Reproductive effects	Not Available.
STOT - Single Exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	Respiratory System, EYES, skin.
Aspiration hazard	No information available.

Numerical Measures of Toxicity - Product information

12. Ecological Information

ecotoxicity

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other Adverse Effects

No information available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this

product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water.

Contaminated packaging Do not reuse empty containers.

14. Transport Information

DOT Not regulated as per 173.150 (e) of 49 CFR.

ICAO

UN-No	1866
Proper shipping name	Resin solution
Hazard class	3
Packing group	PG III

IATA

UN-No	1866
Proper shipping name	Resin solution
Hazard class	3
Packing group	PG III

IMDG/IMO

UN-No	1866
Proper shipping name	Resin solution
Hazard class	3
Packing group	PG III
EmS No.	F-E,S-E

15. Regulatory Information

International Inventories

USINV	Not determined
DSL/NDL	Not determined
EINECS/ ELINCS	Complies
ENCS	Does not comply
China	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
TSCA	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations

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 40n of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous**Categorization**

Acute health hazard	yes
Chronic health hazard	NO
Fire hazard	yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA**RCRA****Pesticide Information****State Regulations****State Right-to-Know****International regulations****U.S. EPA Label information**

EPA Pesticide registration number Not applied

16. Other Information

NFPA HEALTH 2 flammability 3 Instability 0 Physical hazard -

Revision date 08-Dec-2015

Revision Summary

Recurrent confirmation/update of data

Disclaimer**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks associated with the use of this product. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Decco US Post-Harvest, Inc. harmless from any claims relating to such factors.

To the extent consistent with applicable law, Decco US Post-Harvest Inc. makes no warranties or merchantability or of fitness for a particular purpose nor any other express or implied warranty except as stated on this MSDS.

To the extent consistent with applicable law, Decco US Post-Harvest Inc. shall not be liable for any incidental, consequential, indirect, or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF DECCO US POST-HARVEST, INC. FOR ANY AND ALL CLAIMS, LOSSES, INJURIES, OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TOROT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF DECCO POST-HARVEST, INC. THE REPLACEMENT OF THE PRODUCT.

Decco US Post-Harvest, Inc., offers this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of Decco US Post-Harvest, Inc.

End of MSDS