



Safety Data Sheet

Preparation Date 07-Apr-2015

Revision date 01-Dec-2015

Revision Number: 2

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

Product identifier

Product Description: CITRUS LUSTR® 402 A

Other means of identification

Item#: 24402A
UN-No 1866
Synonyms Not Available

Recommended use of the chemical and restrictions on use

Recommended use Citrus wax coating.
Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Manufacturer Address

DECCO
Decco U.S. Post Harvest, Inc.
1713 S. California Ave.
Monrovia, CA 91016-0120

Emergency telephone number

Company Phone Number 626-358-1838
8:00 am - 5:00 pm (PST)
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

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 2A
FLAMMABLE LIQUIDS	Category 3

Label elements

EMERGENCY OVERVIEW

WARNING

hazard statements

CAUSES SKIN IRRITATION
Causes serious eye irritation
Flammable liquid and vapor



appearance translucent brown	Physical state liquid	Odor Pleasant
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Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Ammonium hydroxide	1336-21-6	1-20	
Isopropanol	67-63-0	1-20	

*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	Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. Call a poison control center or doctor for further treatment advice. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
Ingestion	Clean mouth with water. May produce an allergic reaction. Call a physician or poison control center for treatment advice. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician No information available.

5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products None known. Avoid breathing fumes from fire exposed material.

Explosion data**Protective equipment and precautions for firefighters**

Use personal protective equipment. 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 Avoid contact with the skin and the eyes. Use personal protective equipment.

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 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.

7. Handling and Storage

Precautions for safe handling

Handling Keep out of reach of children. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage Keep from freezing, material may coagulate. Keep away from open flames, hot surfaces and sources of ignition.

incompatible materials No materials to be especially mentioned.

8. Exposure Controls/Personal Protection

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL
Isopropanol	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³

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**

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

Skin protection

Rubber gloves.

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

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid	Odor	Pleasant
appearance	translucent brown		
color	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
pH	9	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	50.5 °C / 122 °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	1.03	
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	8.58 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. Extremes of temperature and direct sunlight.

incompatible materials

No materials to be especially mentioned.

Hazardous decomposition products

None known.

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**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.

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)

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium hydroxide 1336-21-6	= 350 mg/kg (Rat)	-	-
Isopropanol 67-63-0	= 4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h

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 There are no known carcinogenic chemicals in this product.

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropanol 67-63-0	-	Group 3		-

Reproductive effects Not Available.
STOT - Single Exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical Measures of Toxicity - No information available

12. Ecological Information

ecotoxicity

No information available

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Chemical name	Log Pow
Isopropanol 67-63-0	0.05

Other Adverse Effects

No information available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Dispose of in accordance with all applicable federal, state, and local laws and regulations.

Contaminated packaging Do not reuse empty containers.

Chemical name	Ammonium hydroxide
Isopropanol	

14. Transport Information

DOT

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

TDG

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

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/ Does not comply
 ELINCS
 ENCS Does not comply
 China Does not comply
 KECL Does not comply
 PICCS Does not comply
 AICS Does not comply
 TSCA Does not comply

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**

Y

Chemical name	SARA 313 - Threshold Values
Isopropanol - 67-63-0	1.0

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances

Ammonium hydroxide 1336-21-6	1000 lb			X
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Chemical name	RQ	CERCLA EHS RQs	RQ
Ammonium hydroxide 1336-21-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

CERCLA

Component	RQ
Ammonium hydroxide 1336-21-6 (1-20)	1000 lb

RCRA

Pesticide Information

State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ammonium hydroxide	X	X	X		
Isopropanol	X	X	X		

International regulations

U.S. EPA Label information

EPA Pesticide registration number Not applied

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 07-Apr-2015
 Revision date 01-Dec-2015
 Revision Summary Update Section 9 Update section 11 Update section 12

Disclaimer

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