

Issue Date 14-Feb-2011

Revision Date 12-Dec-2012

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Peel Away Deck Brightener and Neutralizer

Other means of identification

SDS # DCI-007

UN/ID No UN3265
Synonyms Deck Brightener & Neutralizer

Recommended use of the chemical and restrictions on use

Recommended Use Deck restoration.

Details of the supplier of the safety data sheet

Supplier Address

Dumond Chemicals, Inc.
83 General Warren Blvd
Suite 190
Malvern, PA 19355

Emergency telephone number

Company Phone Number 1-609-655-7700
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation	Category 1
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Signal word

Danger

Hazard statements

Causes serious eye damage



Appearance Colorless to slightly yellow liquid

Physical state liquid

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

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

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Deck Brightener & Neutralizer.

Chemical Name	CAS No	Weight-%	Trade Secret
Oxalic acid	144-62-7	1-10	*
Citric Acid	77-92-9	1-5	*

4. FIRST AID MEASURES

First aid measures**Inhalation**

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Administer oxygen if breathing is difficult.

Eye contact

Flush with water for 30 minutes. Get immediate medical attention. Rinse thoroughly with plenty of water, also under the eyelids. Get immediate medical advice/attention.

Ingestion

If conscious, give 1 glass of water or milk to dilute. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops or persists.

Most important symptoms and effects, both acute and delayed**Symptoms**

Mists and vapors cause irritation of the eyes, mucous membranes, and upper respiratory tract. Contact may cause irritation and redness. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically. Oxalic acid may be absorbed through the skin causing systemic poisoning. Oxalic acid causes removal of calcium from the blood, causing damage to kidneys, which can be fatal. Individuals with chronic eye, skin and respiratory disorders may be at an increased risk from exposure to this material.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media Not determined.

Specific hazards arising from the chemical

At elevated temperatures, containers may rupture. Cool containers exposed to flames with water until well after the fire is out.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride. Methyl chloride.

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 Use personal protective equipment as required.

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Small spills may be neutralized with soda ash. Prevent spill from entering sewers and water courses. Keep in suitable, closed containers for disposal. For waste disposal, see section 13 of the SDS. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Protect container from physical damage. Do not breathe mists or aerosols. Use personal protective equipment as required. Remove Personal Protective Equipment immediately after handling this product. Wash contaminated clothing before reuse. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in a dry, cool and well-ventilated place. Keep away from incompatible materials, open flames, and high temperatures.

Incompatible materials sulfides. Alkali. Alkaline earth metals. chlorites. Hypochlorites. Carbonates. bicarbonates. acetates. furfuryl alcohol. Strong oxidizing agents. Silver compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Oxalic acid 144-62-7	STEL: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ (vacated) STEL: 2 mg/m ³	IDLH: 500 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³

Citric Acid 77-92-9	-	15 mg / m3 (Total)	-
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Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Use in a well-ventilated location (eg. local exhaust ventilation, fans). Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear approved safety goggles where a splash hazard exists.
Skin and body protection	Wear suitable protective clothing. Rubber, butyl rubber, or other impervious gloves are recommended if needed to avoid skin contact.
Respiratory protection	Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For spray application or areas where TLV is exceeded, a NIOSH approved dust mist or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection of respiratory protection depends on the contaminant type, form, and concentration. Select in accordance with OSHA 1910.134 and good industrial hygiene.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Not determined
Appearance	Colorless to slightly yellow liquid	Odor threshold	Not determined
Color	Colorless to yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1.1	
Melting point/freezing point	Not available	
Boiling point/boiling range	100 °C / 212 °F	
Flash point	None	
Evaporation rate	Similar to water	
Flammability (solid, gas)	Not determined	
Flammability Limits in Air		
Upper flammability limits	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	Not determined	
Vapor density	Not determined	
Specific Gravity	Not determined	
Water solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing properties	Not determined	

Other Information

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Keep out of reach of children.

Incompatible materials

sulfides. Alkali. Alkaline earth metals. chlorites. Hypochlorites. Carbonates. bicarbonates. acetates. furfuryl alcohol. Strong oxidizing agents. Silver compounds.

Hazardous Decomposition ProductsCarbon monoxide. Carbon dioxide (CO₂). Formic acid. Nitrogen oxides (NO_x). Hydrogen chloride. Methyl chloride.**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Inhalation	Avoid breathing vapors or mists.
Eye contact	Causes serious eye damage.
Skin Contact	Avoid contact with skin.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Oxalic acid 144-62-7	7500 mg/kg (Rat)	20000 mg/kg (Rat)	-
Citric Acid 77-92-9	= 3000 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Mists and vapors cause irritation of the eyes, mucous membranes, and upper respiratory tract. Contact may cause irritation and redness. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Chronic toxicity Individuals with chronic eye, skin and respiratory disorders may be at an increased risk from exposure to this material. Prolonged or repeated contact may cause erosion of tooth enamel and damage to the kidneys.

Numerical measures of toxicity- Product

Not determined

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

ATEmix (oral) 9091 mg/kg
 ATEmix (dermal) 400000 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Oxalic acid 144-62-7		4000: 24 h Lepomis macrochirus mg/L LC50 static		125 - 150: 48 h Daphnia magna mg/L EC50 Static
Citric Acid 77-92-9		1516: 96 h Lepomis macrochirus mg/L LC50 static		120: 72 h Daphnia magna mg/L EC50

Persistence and degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Chemical Name	Partition coefficient
Oxalic acid 144-62-7	0
Citric Acid 77-92-9	-1.72

Other adverse effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Oxalic acid 144-62-7	Toxic

14. TRANSPORT INFORMATION**DOT**

UN/ID No	UN3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (oxalic acid)
Hazard Class	8
Packing Group	III

IATA

UN/ID No	UN3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (oxalic acid)
Hazard Class	8
Packing Group	III

IMDG

UN/ID No	UN3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (oxalic acid)
Hazard Class	8
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

Legend:

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 Chemical Substances/European 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

US Federal Regulations**SARA 311/312 Hazard Categories**

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

US State Regulations**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Oxalic acid 144-62-7	X	X	X

U.S. EPA Label Information

16. OTHER INFORMATION

NFPA**Health hazards****Flammability****Instability****Special Hazards**

3

0

0

Not determined

HMIS**Health hazards****Flammability****Physical hazards****Personal protection**

Not determined

Not determined

Not determined

Not determined

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14-Feb-2011

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12-Dec-2012

Revision Note

new format

Disclaimer

The information provided 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 a 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 text.

End of Safety Data Sheet