

Revision Date: 05/23/2008

Print Date: 6/8/2009

MSDS Number: R0392138 Version: 2.0

DREWCLEAN® 2010 CLEANER 100207

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland

Regulatory Information Number

1-800-325-3751

P.O. Box 2219

Telephone

614-790-3333

Columbus, OH 43216

Emergency telephone

1-800-ASHLAND (1-800-274-5263)

Product name

DREWCLEAN® 2010 CLEANER

Product code

100207

Product Use Description

No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, light yellow

WARNING!

CAUSES SEVERE EYE BURNS. CAUSES SEVERE SKIN BURNS.

Potential Health Effects

Routes of exposure

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Exposure causes severe irritation of the gastrointestinal tract.

Inhalation



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Breathing of vapor or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, damage to tooth enamel

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Citric acid did not cause harmful effects on the developing fetus when given in the diet of laboratory animals, even at concentrations which were harmful to the pregnant animals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
ORGANIC ACID	NJTS# 254504001-5226	>=50-<60%
(OH-	139-89-9	>=1.5-<5%
ET)ETHYLENEDIAMINETRIACETI		
C AC. 3NA		

4. FIRST AID MEASURES

Eyes



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If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available. **Treatment**: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Water spray, Carbon dioxide (CO2)

Hazardous combustion products

May form:, carbon dioxide and carbon monoxide, various hydrocarbons

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES



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Personal precautions

No data

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Scoop and sweep up all spilled product and other contaminated materials and place in marked disposal containers. If possible, clean up spill area on a dry basis and then flush with plenty of water. Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Keep containers closed when not in use. Store in a cool, dry, ventilated area, away from incompatible substances. Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls



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Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Eye protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin and body protection

To prevent skin contact, wear impervious clothing and boots.

Other protective equipment: eyewash station, emergency shower.

Wear resistant gloves such as:

Neoprene Nitrile rubber

Respiratory protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical stateliquidFormNo dataColourlight yellow

Odour mild

Boiling point/boiling range 100.00 °C / 212 °F@ 1,013.33 hPa

Melting point/range 12 °F / -11 °C

pH 1.2 Flash point No data

Evaporation rate > 1 (Ethyl Ether)

Explosion limits No data

Vapour pressure 23.33 hPa @ 68 °F / 20 °C

Vapour density No data

Density 1.265 g/cm³ @ 77.00 °F / 25.00 °C

10.550 lb/gal @ 77.00 °F / 25.00 °C



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completely soluble in water

Partition coefficient: n-

No data

octanol/water

Solubility

log Pow no data available

Autoignition temperature No data

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Incompatible products

Avoid contact with:, reactive metals such as aluminum and magnesium, strong alkalis

Hazardous decomposition products

May form:, carbon dioxide and carbon monoxide, various hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

ORGANIC ACID	LD 50 Mouse: 5,040 mg/kg
(OH-ET)ETHYLENEDIAMINETRIACETIC	LD 50 Rat: 2,150 mg/kg
AC, 3NA	

Acute inhalation toxicity

ORGANIC ACID	no data available
(OH-ET)ETHYLENEDIAMINETRIACETIC	no data available
AC. 3NA	

Acute dermal toxicity



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ORGANIC ACID	no data available
(OH-ET)ETHYLENEDIAMINETRIACETIC	no data available
AC, 3NA	

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

96 h LC 50 Oncorhynchus mykiss (rainbow trout), static test: 4,830 mg/l

96 h LC 50 Pimephales promelas (fathead minnow), static test: 3,540 mg/l

Acute Toxicity to Aquatic Invertebrates

48 h LC 50 Water flea (Ceriodaphnia dubia), static test: 915 mg/l

Environmental fate and pathways

BOD5:

231,000 mg/l

COD:

518,170 mg/l

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

IMDG:

UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID,) 8, III IATA_P:



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UN3265, Corrosive liquid, acidic, organic, n.o.s. (CITRIC ACID,) 8, III IATA C:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (CITRIC ACID,) 8, III CFR ROAD:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (CITRIC ACID,) 8, III CFR RAIL:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (CITRIC ACID,) 8, III CFR INWTR:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (CITRIC ACID,) 8, III

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

CADMIUM

ARSENIC

NICKEL

LEAD

FORMALDEHYDE

NITRILOTRIACETIC ACID, TRISODIUM SALT MONOHYDRATE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

LEAD

MERCURY

CADMIUM

SARA Hazard Classification Acu

Acute Health Hazard

SARA 313 Component(s)

Reportable quantity - Components

ORGANIC ACID NJTS# 254504001-5226 none (OH- 139-89-9 none

ET)ETHYLENEDIAMINETRIACETI

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	Health	Flammability	Reactivity	Other
HMIS	3	0	0	
NFPA	3	0	0	

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).