Reduce. (6) SP

MATERIAL SAFETY DATA SHEET

Ashland

Date Prepared: 01/06/98
Date Printed: 04/09/04
MSDS No: 306.0184904-008.003

DREWCLEAN 38 MAINTENANCE CLEANER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: DREWCLEAN 38 MAINTENANCE CLEANER
Product Code:
General or Generic ID: RESIN & FILTER TREATMENT

Company
Ashland
Ashland Distribution Co. &
Ashland Specialty Chemical Co.
P. O. Box 2219
Columbus, OH 43216
614-790-3333

Emergency Telephone Number:
1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
FORMIC ACID	64-18-6	10.0- 25.0
PENTA-NA DIETHYLENETRIAMINE PENTAACETATE	140-01-2	1.0- 10.0
NITRILOTRIACETIC ACID TRISODIUM SALT	5064-31-3	0.1

3. HAZARDS IDENTIFICATION

Potential Health Effects

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

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

Swallowing
Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation
It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

Symptoms of Exposure
No data

Continued on next page

Target Organ Effects
No data

Developmental Information
No data

Cancer Information
Nitrilotriacetic acid and its sodium salt have been shown under certain conditions to induce tumors in the urinary tracts of rats and mice. Nitrilotriacetic acid and its salts are listed as carcinogenic by the International Agency for Research on Cancer and the National Toxicology Program.

Other Health Effects
No data

Primary Route(s) of Entry
Inhalation, Skin contact.

4. FIRST AID MEASURES

Eyes
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.

Swallowing
Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation
If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

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

5. FIRE FIGHTING MEASURES

Flash Point
Not applicable

Continued on next page

Explosive Limit
Not applicable

Autoignition Temperature
No data

Hazardous Products of Combustion
May form: carbon dioxide and carbon monoxide.

Fire and Explosion Hazards
No special fire hazards are known to be associated with this product.

Extinguishing Media
alcohol foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions
Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating
Health - 3, Flammability - 0, Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Small Spill
Cover with soda ash. Mix and scoop into a beaker of water.

Large Spill
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. 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.

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
Carbon monoxide may be present in the vapor space of shipping containers of formic acid. Carbon monoxide, which can be lethal, should be assumed to be present in any vessel containing,or formerly containing, formic acid until tests demonstrate otherwise.

Continued on next page

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 Protection
Wear resistant gloves such as: neoprene, To prevent skin contact, wear impervious clothing and boots.

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

Engineering Controls
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines
Component

FORMIC ACID (64-18-6)
OSHA PEL 5.000 ppm - TWA
OSHA VPEL 5.000 ppm - TWA
ACGIH TLV 5.000 ppm - TWA
ACGIH TLV 10.000 ppm - STEL

PENTA-NA DIETHYLENETRIAMINE PENTAACETATE (140-01-2)
No exposure limits established

NITRILOTRIACETIC ACID TRISODIUM SALT (5064-31-3)
No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point
(for component) 212.0 F (100.0 C) @ 760 mmHg

Vapor Pressure
(for component) 17.500 mmHg @ 68.00 F

Specific Vapor Density
> 1.000 @ AIR=1

Specific Gravity
1.066 @ 77.00 F

Continued on next page

Liquid Density
8.870 lbs/gal @ 77.00 F
1.066 kg/l @ 25.00 C

Percent Volatiles
70.0 - 85.0 %

Evaporation Rate
SLOWER THAN ETHYL ETHER

Appearance
CLEAR TO LIGHT YELLOW LIQUID

State
LIQUID

Physical Form
HOMOGENEOUS SOLUTION

Color
CLEAR TO LIGHT YELLOW

Odor
No data

pH
2.2 - 2.6

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
May form: carbon dioxide and carbon monoxide.

Chemical Stability
Stable.

Incompatibility
Avoid contact with: copper, reactive metals such as aluminum and magnesium, strong alkalis, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

Continued on next page

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

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 Company, IC&S Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,8,UN3265,III

Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

FORMIC ACID

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs)	Component
25025	FORMIC ACID

Other Transportation Information

The DOT Transport Information may vary with the container and mode of shipment.

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
FORMIC ACID	5000

CERCLA RQ - 40 CFR 302.4(b)

Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 302 Components - 40 CFR 355 Appendix A

None

Continued on next page

Section 311/312 Hazard Class - 40 CFR 370.2
Immediate(X) Delayed(X) Fire( ) Reactive( ) Sudden Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	CAS Number	%
FORMIC ACID	64-18-6	19.98

OSHA Process Safety Management 29 CFR 1910
None listed

EPA Accidental Release Prevention 40 CFR 68
None listed

International Regulations
Inventory Status
DSL (CANADA) The intentional ingredients of this product are listed.

State and Local Regulations
California Proposition 65
The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.
THIOUREA
FORMALDEHYDE (GAS)
ORTHO-TOLUIDINE

New Jersey RTK Label Information
FORMIC ACID 64-18-6

Pennsylvania RTK Label Information
FORMIC ACID 64-18-6

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.