



Material Safety Data Sheet

Revision Date

20-Apr-2005

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code QL6040
Product name DF 5000
Recommended Use Sewer and Drain Maintenance

Supplier The JI Holcomb Company
 600 Corporate Woods Parkway
 Vernon Hills, IL 60061

 (847) 955-1501

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritant. May be harmful if swallowed.

Aggravated Medical Conditions

No information available

Principal Routes of Exposure

Eyes. Skin. Inhalation. Ingestion.

Potential health effects

Eyes Irritation.

Skin Skin Irritation.

Inhalation Repeated or prolonged exposure may cause the following effects. Respiratory system damage.

Ingestion Nausea. Cramps. Vomiting. Diarrhea.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Propylene Glycol	57-55-6	1-5
Nonylphenol Ethoxylate	9016-45-9	15-40
Bacteria/Complex	68920-42-3	3-7
Water	7732-18-5	3-7

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water. Seek medical attention if irritation persists.

Ingestion Induce vomiting, but only if victim is fully conscious. Seek medical advice and bring MSDS or label.

Inhalation Remove from exposure. Call a physician immediately.

5. FIRE FIGHTING MEASURES

Flash point °C No data available
Flash point °F No data available
Method No information available

Autoignition temperature
Autoignition temperature °C No data available
Autoignition temperature °F

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media

Foam. Dry chemical. Carbon dioxide (CO2). Water fog.

Extinguishing media which must NOT be used for safety reasons

No information available.

Special protective equipment for firefighters

No information available.

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Hazardous decomposition products

See Section 10

Fire and Explosion Hazards

In the event of fire and/or explosion do not breathe fumes.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Soak up excess with absorbent material. Collect and contain for disposal.

7. HANDLING AND STORAGE**Handling**

Ensure adequate ventilation. Avoid breathing vapors or mists. Do not get on skin or in eyes. Thoroughly wash hands and exposed skin after handling. Do not take internally. Keep container closed when not in use.

Storage

Keep out of the reach of children. Follow all label directions. Do not freeze. Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Nonylphenol Ethoxylate	-	-	-	-
Bacteria/Complex	-	-	-	-
Water	-	-	-	-
Propylene Glycol	-	-	-	-

Ventilation and Environmental Controls

Local: recommended. Mechanical: recommended.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

Use NIOSH approved respirator if TLV limit is exceeded.

Hand protection

Rubber gloves. Impervious gloves.

Eye protection

Safety glasses. Goggles.

Skin and body protection

No information available

Other Protective Equipment

Wear appropriate clothing to minimize skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Green
Odor	Fresh
Odor Threshold	No information available
pH	8.5
Specific Gravity	1.02
Boiling point/range °C	100
Boiling point/range °F	212
Melting point/range °C	0
Melting point/range °F	32
Flash point °C	No data available
Flash point °F	No data available
Vapor pressure	0
Vapor density	No data available
Evaporation Rate	1

Water solubility
Partition Coefficient (n-octanol/water)

Miscible
No data available

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Keep from freezing.

Materials to avoid

No information available

Hazardous decomposition products

No information available

Polymerization

Will not occur.

Synergistic Products

No information available.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Nonylphenol Ethoxylate 9016-45-9</i>	1310 mg/kg	2 mL/kg	
<i>Propylene Glycol 57-55-6</i>	20 g/kg	20800 mg/kg	

Potential health effects

Sensitization	No information available.
Chronic toxicity	No information available.
Mutagenic effects	No information available.
Teratogenic effects	No information available
Reproductive toxicity	No information available
Target Organ Effects	No information available

Carcinogenic effects
See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Bacteria/Complex	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propylene Glycol	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Propylene Glycol

Microtox Data

Photobacterium phosphoreum EC50=710 mg/L (30 min)

Water Flea Data

water flea EC50>10000 mg/L (48 h)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT Not Regulated

TDG

Not Regulated

IMDG/IMO

Not Regulated

IATA

Not Regulated

MEX

Not Regulated

15. REGULATORY INFORMATION

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Nonylphenol Ethoxylate	Not Listed	Not Listed	Not Listed
Bacteria/Complex	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Propylene Glycol	Not Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Nonylphenol Ethoxylate	-	X	-	X
Bacteria/Complex	-	-	-	X
Water	X	X	-	X
Propylene Glycol	X	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA

Health 1

Flammability 0

Reactivity 0

HMIS

Health -

Flammability -

Physical Hazard -

Reason for revision

No information available.

Prepared By

T. Heidorn, MSDS Project Lead

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.