Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200

DRANO® DUAL FORCE™ FOAMER CLOG REMOVER

Version *1.*

Print Date 10/09/2008

Revision Date 09/24/2008

MSDS Number 350000004604

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name	:	DRANO® DUAL FORCE™ FOAMER CLOG REMOVER
Use of the Substance/Preparation	:	Drain Cleaner
Company	:	S.C. Johnson & Son, Inc. 1525 Howe Street Racine WI 53403-2236
Emergency telephone	:	24 Hour Transport & Medical Emergency Phone (866) 231-5406 24 Hour International Emergency Phone (952) 852-4647

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor	:	clear / liquid / characteristic
Immediate Concerns	:	DANGER Causes severe burns. Harmful if swallowed. Do not taste or swallow. Avoid contact with skin, eyes and clothing.

Potential Health Effects

Routes of exposure	:	Eye, Skin, Inhalation, Ingestion.
Eyes	:	Corrosive - causes irreversible eye damage. May cause blindness.
Skin	:	Corrosive to skin Causes skin burns.
Inhalation	:	None known.
Ingestion	:	Causes digestive tract burns.
Aggravated Medical Condition	:	None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Deionized Water	7732-18-5	60.00 - 100.00
Sodium hypochlorite	7681-52-9	1.00 - 5.00

4. FIRST AID MEASURES

Eye contact	:	Rinse with water. Remove contact lenses. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
Skin contact	:	Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately. Take off contaminated clothing and shoes immediately.
Inhalation	:	Remove to fresh air. If breathing is affected, get medical attention.
Ingestion	:	Get medical attention immediately. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Alcohol foam, carbon dioxide, dry chemical, water fog
Specific hazards during fire fighting	:	Container may melt and leak in heat of fire.
Further information	:	Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area.
Flash point	:	Note: no data available
Lower explosion limit	:	Note: no data available
Upper explosion limit	:	Note: no data available

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Dike large spills.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	Use only as directed. KEEP OUT OF REACH OF CHILDREN AND PETS. Product residue may remain in/on empty containers. All precautions taken in handling the product must be used in

handling the empty container and residue.

Storage

Requirements for storage areas and containers	:	Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection

Industrial setting	:	In the case of hazardous fumes, wear self contained breathing apparatus. Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.
Household setting	:	No personal respiratory protective equipment normally required.

Hand protection

Industrial setting	:	Protective gloves
Household setting	:	not required under normal use

Eye protection

Industrial setting	:	Wear splash-resistant Chemical goggles.
Household setting	:	No special requirements.

Hygiene measures	:	Use only with adequate ventilation. Wash thoroughly after handling. Wear suitable protective clothing. Do not taste or swallow. Avoid contact with skin, eyes and clothing.
Hygiene measures	:	A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	liquid
Color	:	clear
Odor	:	characteristic
pH	:	> 12.9
Melting point	:	no data available
Boiling point	:	> 212 °F
Freezing point	:	no data available
Flash point	:	no data available
Evaporation rate	:	no data available
Autoignition temperature	:	not applicable
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	no data available
Viscosity, dynamic	:	not applicable
Specific Gravity	:	1.08
Percent volatile	:	not determined

10. STABILITY AND REACTIVITY

Conditions to avoid	:	None known.
Materials to avoid	:	Do not mix with acids or any other household products. May release dangerous gases (chlorine). Avoid contact with: Rust remover. Ammonia

Hazardous decomposition products	:	Chlorine If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated. When exposed to fire, produces normal products of combustion.
Hazardous reactions	:	Stable

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	Causes severe digestive tract burns.
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	LD50 rabbit Dose: > 2,000 mg/kg
Chronic effects		
Carcinogenicity	:	no data available
Mutagenicity	:	no data available
Reproductive effects	:	no data available
Teratogenicity	:	no data available
Sensitisation	:	no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	:	Not Available

13. DISPOSAL CONSIDERATIONS

Industrial setting	:	Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
Household setting	:	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Land transport

U.S. DOT and Canadian TDG Surface Transportation:

UN-Number	1760
Proper shipping name	Corrosive Liquid, N.O.S.
Class:	8
Packaging group:	III
Note:	SC Johnson ships this product as Consumer Commodity ORM-D (non-bulk packages)

Sea transport

IMDG:

Class:	8
Packaging group:	III
Proper shipping name	Corrosive Liquid, N.O.S.
UN-Number:	1760
Note:	SC Johnson ships this product as "Limited Quantity" when the container quantity value is 1 Liter or less.

Air transport

ICAO/IATA:

Class:	8
Packaging group:	III
Proper shipping name	Corrosive Liquid, N.O.S.
UN/ID No.:	UN 1760
Note:	SC Johnson typically does not ship products via air, therefore it has not been determined if the product container meets current IATA/ICAO package criteria. Refer to IATA/ICAO Dangerous Goods Regulations for detailed instructions when shipping this item by air.

15. REGULATORY INFORMATION

Global Chemical Inventories

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

: All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

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

16. OTHER INFORMATION

HMIS Ratings

Health	3
Flammability	0
Reactivity	0

NFPA Ratings

Health	3
Fire	0
Reactivity	0
Special	

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment &

	Regulatory Affairs (GSARA)