



Product  
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## 1. PRODUCT AND COMPANY INFORMATION

Identification of the substance/preparation	X400
Use of the substance/preparation	Sludge remover for central heating systems
Company Identification	Douglas Products and Packaging.
Address and Telephone No.	1550 East Old 210 Highway Liberty Missouri, 64068 USA
Tel:	(816)-781-4250 (8am - 5pm)
Emergency Phone No.	Chemtrec (800) 424-9300 (24/7)
Fax:	(816)-781-1043

## 2. HAZARDS IDENTIFICATION

### GHS-US Classification

Not classified as hazardous under HCS 2012

### GHS-US labeling

Hazard pictograms (GHS-US) :	None required
Signal word (GHS-US) :	None required
Hazard statements (GHS-US) :	None required
Precautionary statements (GHS-US) :	None required

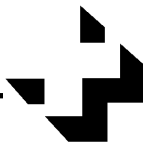
## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical description

Neutral solution of synthetic organic polymer.

### Hazardous component(s)

Ingredient	CAS Number	EC Number	w/w %	Classification (67/548/EEC)	Classification (GHS)
No hazardous ingredients above GHS reporting thresholds					



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#### 4. FIRST-AID MEASURES

Inhalation	Remove patient to fresh air, allow to rest and keep warm. Seek medical attention if symptoms develop.
Skin contact	Wash with plenty of water. Remove any contaminated clothing and laundry before reuse. Seek medical attention if symptoms develop.
Eye contact	Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open. Seek medical attention if symptoms develop.
Ingestion	DO NOT induce vomiting! Rinse mouth out with water, but do not give anything to drink. Seek medical attention if symptoms develop.
Personal precautions	Ensure that those giving first aid treatment do not get contaminated by product spills, etc. Wear suitable protective clothing, gloves and eye protection. See also Section 8.

#### 5. FIRE-FIGHTING MEASURES

- Suitable	Water, foam, carbon dioxide, dry powder.
- Not to be used	None.
Special exposure hazards	Oxides of carbon, nitrogen and sulphur evolved in fire.
Special protective equipment for fire fighters	Protective clothing and self-contained breathing apparatus.
Flash point	Not flammable.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye protection. See Section 8 for details. Keep unnecessary personnel away.
Environmental precautions	Prevent from entering sewers or the immediate environment. In case of large spill, inform local authorities.
Methods for cleaning up	
- on soil	Absorb onto inert material such as earth, soil or specialist absorbent. Collect and place into sealed container for safe disposal (see Section 13).
- on water	None known.



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## 7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Do not ingest or inhale vapours or spray.
Storage	Keep in original containers. Keep container tightly closed. Store in cool, well ventilated area. Protect from freezing and from high temperatures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended engineering controls	Ensure good ventilation. Arrange for eye wash possibility.
Control parameters:	None set.
Monitoring procedures	Not required.
Personal protection	
Always check applicability with your supplier of protective equipment.	
- Respiratory protection	In case of insufficient ventilation, wear full face or half face mask fitted with filter suitable for liquid particulates.
- Skin protection	Laboratory coat or overalls if splashing or repeated contact with product is likely.
- Eye protection	Chemical goggles or full face visor.
- Hand protection	Plastic, impervious gloves for protection against unintentional short-term contact. However, since glove performance is governed by many variables, it is strongly recommend that specialist advice on the selection and use of protective gloves is sought.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow to amber liquid
Odour	Mild
Odor threshold	No information available
pH (concentrated product)	7.0
Melting point (°C)	Approx -8 [17.6°F]
Boiling point/range (°C)	Approx 100 [212°F]
Flash point	Not flammable
Evaporation rate (ether=1)	< 1
Flammability (solid/gas)	Not relevant
Vapor pressure	No information available
Relative vapour density (air=1)	< 1
Explosive properties	None
Density at 20°C [68°F] (kg/m <sup>3</sup> )	1040



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Solubility in water (% by weight)	Completely miscible
Partition coefficient (Octanol/water)	Not relevant
Autoignition temperature	Not flammable
Decomposition temperature	No information available
Viscosity at 20°C [68°F] (mPas)	10
Oxidizing properties	None

*Note: These are typical values and do not constitute a specification.*

## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Conditions to avoid	Protect from freezing.
Materials to avoid	None known.
Hazardous decomposition products	Oxides of carbon, nitrogen and sulphur evolved in fire.

## 11. TOXICOLOGICAL INFORMATION

Test data:	No data available on product.
Calculated from ingredient data:	
- Oral LD <sub>50</sub> rat (mg/kg)	> 30,000 - Not considered hazardous under the GHS classification system.
- Dermal LD <sub>50</sub> rabbit (mg/kg)	> 14,000 - Not considered hazardous under the GHS classification system.
Exposure hazard:	
- Inhalation	Prolonged or repeated exposure may cause transient irritation.
- Skin contact	Prolonged or repeated exposure may cause transient irritation.
- Eye contact	Prolonged or repeated exposure may cause transient irritation.
- Ingestion	Likely symptoms are slight gastrointestinal irritation.
Other data	None available.

## 12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No data available on product.
Calculated data based on ingredients	
- Daphnia Magna (mg/l) EC <sub>50</sub> 48 Hr:	>7,000



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**Persistence and degradability**

All organic components are biodegradable.

**Bioaccumulative potential**

- Bioaccumulation Not bioaccumulating

**Mobility in soil**

No information available

**Summary**

Environmental effects: Not classified as hazardous to the environment under the GHS classification system.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

**14. TRANSPORTATION INFORMATION**

Not classified as dangerous for transport.

**15. REGULATORY INFORMATION**

Inventory Status

TSCA All ingredients of this product are listed unless specifically exempted.

California Proposition 65

Does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

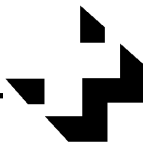
EU

All ingredients of this product are listed in EINECS or ELINCS, unless specifically exempted under EU Directive 67/548/EEC (as amended).

Right to know classification:

None are listed in CA, PA, MN, MA, MI, FL and NJ.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable national, international and local regulations or provisions.



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**16. OTHER INFORMATION**

Hazardous Material Information (HMIS)		National Fire Protection Association (NFPA)	
Health	0	0	Health
Fire	0	0	Fire
Reactivity	0	0	Instability
Personal Protection	G		NA

Health	4 Deadly	3 Extreme Danger	2 Dangerous	1 Slight hazard	0 No hazard
Fire	4 < 73 °F	3 < 100 °F	2 < 200 °F	1 >200 °F	0 Will not burn
Reactivity/Instability	4 - May detonate	3 Explosive	2 Unstable	1 Normally stable	0 Stable

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Nature of revision Updated to HSC 2012.

R-phrases used in Section 3 None

H-statements used in Section 3 None

Based on HSC 2012 and EU Regulation 1907/2006

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