

SENTINEL Sentinel X400 Rapid-Dose 300ml Safety Data Sheet

according to Federal Register / Vol	. 77, No. 58 / Monday, March 26, 20	12 / Rules and Regulations
Date of issue: 05/31/2017	Revision date: 05/31/2017	Version: 1.0
SDS No: 12301-0012		

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixtu			
Product name		inel X400 Rapid-Dose 300ml		
Other means of identification	: Sent	inel X400 Rapid-Dose 400ml		
1.2. Recommended use and restrictions	on use			
Use of the substance/mixture	: Slud	ge remover for central heating sys	tems	
1.3. Supplier				
Manufacturer Sentinel Performance Solutions LTD 7650 Daresbury Park, Daresbury Warrington, Cheshire, WA4 4BS T +44 (0)1928 704 330 - F +44 (0)1928 562 070 info.uk@sentinelprotects.com		Distributor Douglas Produc 1550 East Old 2 Liberty, Missour T (816)-781-425	210 Highway ri 64068 - USA	- F (816)-781-1043
1.4. Emergency telephone number				
Emergency number	: Cher	mtrec (800) 424-9300 (24/7)		
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or n	nixture			
GHS-US classification				
Not classified				
Not classified				
2.2. GHS Label elements, including pred	autiona	ry statements		
GHS-US labeling				
No labeling applicable				
2.3. Other hazards which do not result i	n classif	ication		
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Informatio	on on ir	ngredients		
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name		Product identifier	%	GHS-US classification
potassium hydroxide, caustic potash		(CAS-No.) 1310-58-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Full text of hazard classes and H-statements : see section 16				
SECTION 4: First-aid measures				
4.1. Description of first aid measures				
First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical				
advice. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.				
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and				
water. Wash skin with plenty of water.				
First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse eyes with water as a precaution.				
First-aid measures after ingestion	: Do N	IOT induce vomiting. Rinse mouth	. Call a poison o	center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available



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4.3.	B. Immediate medical attention and special treatment, if necessary				
Treat symptomatically.					
SECTI	SECTION 5: Fire-fighting measures				
5.1.	Suitable (and unsuita	able) extinguishing	g media		
Suitable	extinguishing media	:	Water spray. Dry powder. Foam. Car	bon dioxide.	
5.2.	Specific hazards aris	sing from the chem	nical		
Explosio	n hazard	:	Pressurized container: may burst if h	Pressurized container: may burst if heated.	
Reactivit	у	:	Pressurized container: may burst if heated.		
5.3.	Special protective ed	quipment and prec	autions for fire-fighters		
Firefight	ng instructions	:	Use water spray or fog for cooling ex enter drains or water courses.	posed containers. Do not allow run-off from fire fighting to	
Protectio	on during firefighting	:	Do not attempt to take action without apparatus. Complete protective cloth	suitable protective equipment. Self-contained breathing ing.	
SECTI	ON 6: Accidental	release measu	res		
6.1.			oment and emergency procedures		
6.1.1.	For non-emergency	personnel			
	ncy procedures		Ventilate spillage area. Evacuate unr smoking.	ecessary personnel. No open flames, no sparks, and no	
6.1.2.	For emergency resp	onders			
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".					
6.2.	Environmental preca	autions			
Avoid re	lease to the environmer	nt.			
6.3.	Methods and materia	al for containment	and cleaning up		
Methods	for cleaning up	:	Mechanically recover the product.		
Other inf	ormation	:	Dispose of materials or solid residues	s at an authorized site.	
6.4.	Reference to other s	ections			
For furth	er information refer to s	ection 8: "Exposure	e controls/personal protection". For furt	her information refer to section 13.	
SECTI	ON 7: Handling ar	nd storage			
7.1.	Precautions for safe	handling			
Precautions for safe handling :		Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use.			
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling product.					
7.2. Conditions for safe storage, including any incompatibilities					
Storage	Storage conditions : Store in original container. Keep container closed when not in use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.				
SECTION 8: Exposure controls/personal protection					
8.1.	8.1. Control parameters				
potass	potassium hydroxide, caustic potash (1310-58-3)				
ACGIH		ACGIH Ceiling (m	ng/m³)	2 mg/m ³	

3.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.

2 mg/m³

NIOSH

NIOSH REL (ceiling) (mg/m³)



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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Chemical goggles or safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: Aerosol.		
Color	: Slightly hazy brown liquid		
Odor	: Barely perceptible		
Odor threshold	: No data available		
рН	: 6.2 @ 25°C		
Melting point	: -13 ℃		
Freezing point	: -13 °C		
Boiling point	: 100 °C		
Flash point	: > 100 °C		
Relative evaporation rate (butyl acetate=1)	: <1		
Flammability (solid, gas)	: Not flammable.		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: 1.080		
Solubility	: Miscible with water.		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: No data available		
Explosive properties : Product is not explosive. Pressurized container: may burst if heated.			
Oxidizing properties : Non oxidizing material.			
0.0 Others information			

9.2. Other information

No additional information available

SECTI	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
Pressuri	Pressurized container: may burst if heated.				
10.2.	Chemical stability				
Stable under normal conditions.					
10.3.	Possibility of hazardous reactions				
No dangerous reactions known under normal conditions of use.					



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10.4. Conditions to avoid

Extremely high or low temperatures. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

Acute toxicity

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Not classified

potassium hydroxide, caustic potash (1310-58-3)		
LD50 oral rat	284 mg/kg	
ATE US (oral)	284 mg/kg body weight	
Skin corrosion/irritation	: Not classified	
	pH: 6.2 @ 25°C	
Serious eye damage/irritation	: Not classified	
	pH: 6.2 @ 25°C	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.			
40.0 Development of a second development of a little s				

12.2.	.2. Persistence and degradability			
No addi	tional information available			
12.3.	2.3. Bioaccumulative potential			
potas	sium hydroxide, caustic potash (1310-5	8-3)		
Log Po	W	0.65		
12.4.	12.4. Mobility in soil			
No additional information available				
12.5. Other adverse effects				
12.5. Other adverse enects				
Effect on global warming :		: No known effects from this product.		

SECTION 13: Disposal consideration	2
OF OTION 13. Disposal consideration	5
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

: No known effects from this product.

GWPmix comment



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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.2
UN-No. (IMDG)	: 1950
Proper Shipping Name (IMDG)	: AEROSOLS
Class (IMDG)	: 2 - Gases
Limited quantities (IMDG)	: SP277
MFAG-No	126
Air transport	
Transport document description (IATA)	: UN 1950 Aerosols, non-flammable, 2.2
UN-No. (IATA)	: 1950

UN-No. (IATA)	:	1950
Proper Shipping Name (IATA)	:	Aerosols, non-flammable
Class (IATA)	:	2

SECTION 15: Regulatory i	nformation
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15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

potassium hydroxide, caustic potash (1310-58-3)		
CERCLA RQ	1000 lb	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

pota	ssium	hydro	oxide	e, ca	ustic	pot	ash	(1310-58-3)		

U.S. - Massachusetts - Right To Know List

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

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Full	text of H-phrases:						
	H302	02 Harmful if swallowed					
	H314 Causes severe skin burns and eye damage						
Abb	reviations and acronyms:						
	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road					
	ATE Acute Toxicity Estimate						
	CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008					
	DNEL	Derived-No Effect Level					
	EC50	Median effective concentration					
	IARC	International Agency for Research on Cancer					
	ΙΑΤΑ	International Air Transport Association					
	IMDG	International Maritime Dangerous Goods					
	LC50	Median lethal concentration					
	LD50	Median lethal dose					
	РВТ	Persistent Bioaccumulative Toxic					
	PNEC	Predicted No-Effect Concentration					
	REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006						
	RID	D Regulations concerning the International Carriage of Dangerous Goods by Rail					
	vPvB	Very Persistent and Very Bioaccumulative					

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product