Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/27/2018

Supersedes: All previous versions Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

: Metal cleaner

Product identifier 1.1.

Product name

Product form

: Sentinel 696 Aluminum & Metal Cleaner

: Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Details of the supplier of the safety data sheet 1.3.

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633 www.senpro.com

1.4. **Emergency telephone number**

Emergency number

: 1-866-359-5661

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corrosion/Irritation Category 2	H315
Eye Irritation Category 1	H318
Chronic Aquatic Toxicity Category 3	H412

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)	: GHS05
Signal word (GHS-US)	[:] Danger
Hazard statements (GHS-US)	: H315 - Causes skin irritation H318 - Causes serious eye damage H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P264 - Wash hands thoroughly after handling. P280 - Wear eye protection/face protection, protective gloves. P273 - Avoid release to the environment. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician. P501 - Dispose of contents/container to licensed waste handling facility
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	
No data available	

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%
Water	(CAS No) 7732-18-5	Proprietary*
Surfactant Blend	(CAS No) Proprietary*	Proprietary*
Lauramine Oxide	(CAS No) 70592-80-2	Proprietary*
Sodium Metasilicate Pentahydrate	(CAS No) 6834-92-0	Proprietary*
Amino tris(methylene phosphonic acid)	(CAS No) 6419-19-8	Proprietary*

SECTION 4: First aid measures Description of first aid measures 4.1. First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. First-aid measures after skin contact IF ON SKIN : Rinse and wash with plenty of soap and water. Remove contaminated clothing and shoes and wash before reuse. First-aid measures after eye contact : IF IN EYES: Immediately rinse cautiously with water for 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical advice/attention promptly. First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical advice/attention promptly. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : May be fatal if swallowed and enters airways. Symptoms/injuries after inhalation Inhalation in high concentrations may cause irritation of the upper respiratory tract. Aspiration of this material into the lungs may cause chemical pneumonia or death. Symptoms/injuries after skin contact : Contact may cause irritation or an allergic skin reaction. Persons with a pre-existing skin condition may be more susceptible to the effects of this product. Symptoms/injuries after eye contact Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal damage. Symptoms/injuries after ingestion Irritating to the mucous membranes of the mouth, throat, esophagus and stomach.

Chronic symptoms : No data available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures		
5.1. Ext	inguishing media	
Suitable extin	guishing media	: Dry chemical. Carbon dioxide. Foam.
5.2. Special hazards arising from the substance or mixture		
Explosion haz	zard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity		: No dangerous reactions known under normal conditions of use.
5.3. Adv	vice for firefighters	
Firefighting in	structions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection du	ring firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
General r	neasures	: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1.	For non-emergency personnel	
Protective	e equipment	: Wear Protective equipment as described in Section 8.
Emergen	cy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protective	equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3.	5.3. Methods and material for containment and cleaning up	
For cor	itainment	 Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Foam may be used to suppress vapors.
Method	ls for cleaning up	Mop up spills and flush residues with large volume of water, or soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
6.4.	Reference to other sections	

No additional information available

SECTION 7: Handling and storage		
7.1. Preca	utions for safe handling	
Precautions for s	safe handling	Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists.
7.2. Condi	tions for safe storage, inclu	ding any incompatibilities

Storage conditions

Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Do not allow product to freeze as container may burst.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Surfactant Blend (Proprietary*)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

Lauramine Oxide (70592-80-2)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

Sodium Metasilicate Pentahydrate (6834-92-0)	
Remark (ACGIH)	OELs not established
Remark (US OSHA) OELs not established	
While evenesure limits are not engined for this material, on evenesure limit	of 2 ma/m ³ (15 min TM/A) is recommended by appleau with redium hydroxide

While exposure limits are not assigned for this material, an exposure limit of 2 mg/m³ (15 min TWA) is recommended by analogy with sodium hydroxide.

Amino tris(methylene phosphonic acid) (6419-19-8)		
Remark (ACGIH)	OELs not established	
Remark (US OSHA)	OELs not established	

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Ensure adequate ventilation, especially in confined areas. It is suggested that there be a source of clean water near by should it be needed for flushing eyes.
- : Gloves. Protective goggles. Respiratory protection of the dependent type may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.



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Hand protection	: Use gloves chemically resistant to this material when prolonged or repeated contact could occur or if pre-existing skin conditions are present. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.
Eye protection	Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.
Skin and body protection	: Wear suitable protective clothing as neccessary.
Respiratory protection	: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	:	Liquid
Appearance	:	Clear
Color	:	None
Odor	:	Fragranced
Odor Threshold	:	No data available
рН	:	11.0
Relative evaporation rate (butyl acetate=1)	:	Slower than ether
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	>100 °C (212 °F)
Flash point	:	None to boiling
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Freezing.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Thermal decomposition generates : Oxides of carbon.

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SECTION 11: Toxicological informat 11.1. Information on toxicological effects		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Surfactant Blend (Proprietary*)		
LD50 oral rat	= 1 g/kg	
LD50 dermal rabbit	No data available	
Lauramine Oxide (70592-80-2)		
LD50 oral rat	No data available	
LD50 dermal rabbit	No data available	
Sodium Metasilicate Pentahydrate (6834-92	-0)	
LD50 oral rat	> 1100 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 Inhalation rat	> 2 g/m ³	
Amino tris(methylene phosphonic acid) (64	19-19-8)	
LD50 oral rat	No data available	
LD50 dermal rabbit	No data available	
Skin corrosion/irritation	: Causes skin irritation	
Serious eye damage/irritation	: Causes eye damage	
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	: May be fatal if swallowed and enters airways.	
Symptoms/injuries after inhalation	Inhalation in high concentrations may cause irritation of the upper respiratory tract. Aspiration this material into the lungs may cause chemical operation or death	

	this material into the lungs may cause chemical pneumonia or death.
Symptoms/injuries after skin contact	Contact may cause irritation or an allergic skin reaction. Persons with a pre-existing skin condition may be more susceptible to the effects of this product.
Symptoms/injuries after eye contact	Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal damage.
Symptoms/injuries after ingestion	: Irritating to the mucous membranes of the mouth, throat, esophagus or stomach.
Chronic symptoms	: No data available.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste treatment methods	Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: Cleaning Compound
Department of Transportation (DOT) Hazard Classes	: Not Regulated
Transport by sea	

No additional information available

Air transport

No additional information available

In accordance with ADR / RID / IMDG / IATA / ADN

SECTION 15: Regulatory information

15.1. US Federal regulations

Sentinel 696 Aluminum & Metal Cleaner		
All chemical substances in this product are listed or exempt from listing in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

15.2. International regulations

CANADA

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 and/or reproductive harm.

SECTION 16: Other inform	nation
Indication of changes	: Revision 1.2 - 27 February 2018 - Section 2 Updated
Other information	: Author. KAD
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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HMIS III Rating	
Health	: 1
Flammability	: 0
Physical	: 0
Personal Protection	:

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