# Safety Data Sheet

# According to SS586:2014

Pro-Strength Liquid-Plumr Slow Flow Fighter Clog Remover

Version 1.0

Issue date:10/10/2014 Revision date: 10/10/2014 SDS Record Number: CSSS-TCO-010-115563

# Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifier:

Identification on the label/Trade name: Pro-Strength Liquid - Plumr Full Clog Destroyer Clog Remover

Additional identification: Not available See section 3 Identification of the product: Not available Index Number: Not available **REACH** registration No.:

## Relevant identified uses of the substance and uses advised against:

Identified uses:

Use in drains.

Uses advised against:

Not available.

## Details of the supplier of the safety data sheet:

Supplier(Manufacturer): The Clorox Company

Address: 1221 Broadway Oakland, CA 94612 USA

Contact person(E-mail):

1-510-271-7000 Telephone:

Fax:

#### **Emergency telephone Number:**

For Medical Emergencies call: 1-800-446-1014

Transportation Emergencies, call Chemtrec: 1-800-424-9300

Available outside office hours? YES NO Χ

### **Section 2 Hazards Identification**

## Classification of the substance/mixture:

**GHS Classification** skin corrosion/irritation Category 1A

> serious eye damage/eye irritation Category 1 Corrosive to metals Category 1 Category 1

> > SDS EU

1/7

hazardous to the aquatic environment-

**CHRONIC** 

label elements:

**Hazard Pictograms:** 





Signal Word(S): Danger

**Hazard Statement:** May be corrosive to metals.

Product name: Pro-Strength Liquid-Plumr Slow Flow Fighter Clog Remover Version #: 1.0 Issue date: 10-10-2014. Revision date: 10-10-2014. Causes severe skin burns and eye damage.

Causes serious eye damage.

Very toxic to aquatic life with long lasting effects.

**Precautionary statement:** Keep only in original container.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Collect spillage.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container in according with local regulation.

#### Other hazards:

Not available.

# Section 3 Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Sodium chloride	N/A	7647-14-5	231-598-3	10-30%
Sodium hypochlorite	N/A	7681-52-9	231-668-3	5-10%
Sodium hydroxide	N/A	1310-73-2	215-185-5	1-5%

#### Section 4 First aid measures

#### **Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

#### In case of inhalation:

Move to fresh air. If symptoms persist, call a physician. If breathing has stopped, contact emergency medical services immediately. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Administer oxygen if breathing is difficult and you are trained. Delayed pulmonary edema may occur. Get medical

 attention immediately if symptoms occur.

#### In case of skin contact:

Wash skin with soap and water. Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

#### In case of eyes contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if applicable, and continue flushing.

#### In case of ingestion:

Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

#### Most important symptoms and effects, both acute and delayed:

Causes severe skin burns and eye damage. Causes serious eye damage.

#### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

# Section 5 Fire-Fighting measures

Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media:**Use of water spray when fighting fire may be inefficient.

Special hazards arising from the

substance or mixture

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In case of fire, the

following can be released: carbon oxides.

Special fire fighting methods and

special protective actions for

fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate

ventilation. Use personal protective equipment. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow material to contaminate ground water system. Prevent

product from entering drains.

Methods for Containment and Cleaning up: Prevent further leakage or spillage if safe to do so. Collect and transfer to properly

labeled containers.

**Reference to other sections:** See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Additional information: Not applicable.

Product name: Pro-Strength Liquid-Plumr Slow Flow Fighter Clog Remover Version #: 1.0 Issue date:10-10-2014. Revision date: 10-10-2014.

# Section 7 Handling and storage

Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid Protective measures:

> contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate

exhaust ventilation at machinery.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove

contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including

any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Keep away from acids, bases, oxidizing agents, strong oxidizing agents,

strong acids, strong bases.

Specific end use(s): Not applicable.

# **Section 8 Exposure Controls/Personal Protection**

**Control parameters:** 

**OCCUPATIONAL EXPOSURE LIMITS (OEL)** 

**INGREDIENT DATA:** 

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold	sodium	sodium	Not Available	Not Available	2 mg/m3	TLV® Basis:
Limit Values (TLV)	hydroxide	hydroxide				URT, eye,
						& skin irr

#### **EMERGENCY LIMITS:**

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Singapore	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Sodium hypochlorite	Not Available	Not Available
Sodium chloride	Not Available	Not Available
Sodium hydroxide	250 mg/m3	10 mg/m3

#### **Exposure controls:**

Appropriate engineering controls: Exhaust ventilation should be designed to prevent accumulation and recirculation in

the workplace and safely remove carbon black from the air.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Face-shield.

Hand protection: Wear general protective gloves, eg. light weight rubber gloves. Elbow length PVC

**Body protection:** Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant apron. Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits

are exceeded or irritation is experienced, ventilation and evacuation may be

required.

Thermal hazards: Wear suitable protective clothing to prevent heat.

**Environmental exposure controls:** According to local regulations, Federal and official regulations.

# Section 9 Physical and chemical properties

Information on basic physical and chemical properties:

Appearance: Viscous liquid

Colour: Clear Light yellow

Odour: Bleach

Odour threshold: Not available

:Ha 13.2

Melting point/range (°C): Not available Not available Boiling point/range (°C): Flash point (°C): Not available Not available **Evaporation rate:** Flammability limit - lower (%): Not available Flammability (solid, gas): Not available Ignition temperature (°C): Not available **Upper/lower flammability/explosive limits:** Not available

Vapour pressure (20°C): Not available Vapour density: Not available Not available Density:

Bulk density (kg/m<sup>3</sup>): Not available Water solubility (g/l): Soluble in water. n-Octanol/Water (log Po/w): Not available

Not available **Auto-ignition temperature: Decomposition temperature:** Not available Viscosity, dynamic (mPa.s): Not available Not available **Explosive properties:** 

Oxidising properties: Not available Not available Molecular Formula: Molecular Weight: Not available

Other information:

Fat solubility(solvent- oil to be specified) Not available

etc:

Not available Surface tension: Dissociation constant in water( pKa): Not available **Oxidation-reduction Potential:** Not available Not available Specific gravity:

# Section 10 Stability and reactivity

The substance is stable under normal storage and handling conditions. Reactivity:

Chemical stability: Stable at room temperature in closed containers under normal storage and handling

conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Incompatible materials.

Incompatible materials: Acids. Bases. Oxidizing agents. Strong oxidizing agents. Strong acids. Strong

bases.

Hazardous decomposition products: Carbon oxides.

# **Section 11 Toxicological information**

### Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

Sodium hypochlorite (CAS# 7681-52-9)

LD50(Oral, Rat):8200 mg/kgLD50(Dermal, Rabbit):> 10000 mg/kgLC50(Inhalation, Rat):Not available

Sodium chloride (CAS# 7647-14-5)

**LD50(Oral, Rat):** 3 g/kg

LC50(Inhalation, Rat):

Not available

> 42 g/m3 1 h

Sodium hydroxide (CAS#1310-73-2)

LD50(Oral, Rat):Not availableLD50(Dermal, Rabbit):1350 mg/kgLC50(Inhalation, Rat):Not available

**Skin corrosion/Irritation:** Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization:Not classifiedGerm cell mutagenicity:Not classifiedCarcinogenicity:Not classifiedReproductive toxicity:Not classifiedSTOT- single exposure:Not classifiedSTOT-repeated exposure:Not classified

## **Section 12 Ecological information**

## **Toxicity:**

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Results of PBT&vPvB assessment:

Not available.

Not available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

# **Section 13 Disposal considerations**

Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in

compliance with national and regional requirements.

Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed.

Return for reuse or dispose according to national or local regulations.

Section 14 Transport information				
	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)	
UN-Number	3266	3266	3266	
UN Proper shipping name	Corrosive liquid, basic, inorganic, n.o.s.( contains Sodium hypochlorite, Sodium hydroxide)	Corrosive liquid, basic, inorganic, n.o.s.( contains Sodium hypochlorite, Sodium hydroxide)	Corrosive liquid, basic, inorganic, n.o.s.( contains Sodium hypochlorite, Sodium hydroxide)	
Transport hazard Class	8	8	8	
Packaging group	I	I	I	
Environmental hazards	Yes	Yes	Yes	
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated	

# **Section 15 Regulation information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture:

Sodium hypochlorite	"Singapore Permissible Exposure Limits of Toxic Substances", "International	
	Agency for Research on Cancer (IARC) - Agents Classified by the IARC	
	Monographs".	
Sodium chloride	Not available.	
Sodium hydroxide	"Singapore Permissible Exposure Limits of Toxic Substances".	

## **Section 16 Other information**

#### **Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

#### Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Author: Hangzhou CIRS Co., Limited Website: www.cirs-group.com Tel:0571-87206555 Email:info@cirs-group.com