

# SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Revision Date Nov 01, 2021

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

Product name	CLEANING SOLUTION S
CAS-No.	-
Product code	GN1032

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified uses Chemical for analysis and production.

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

Company	RCI LABSCAN LIMITED.
	24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand
Telephone number	(662) 613-7911-4
Fax number	(662) 613-7915

## 1.4 Emergency Telephone Number Emergency phone

(662) 613-7911-4

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Skin corrosion (Category 1A), H314 Skin sensitization (Category 1), H317 Respiratory sensitization (Category 1), H334 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1B), H360FD Specific target organ toxicity - repeated exposure (Category 2), H373 Chronic aquatic toxicity (Category 3), H412 For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

## Labelling according Regulation (EC) No 1272/2008





Signal word

Danger

Hazard statement(s)	
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)	
P203	Obtain, read and follow all safety instructions before use.
P260	Do not breathe spray.
P264	Wash hand thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty water.
P302 + P361 + P354	IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Immediately rinse with water for several minutes.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P354 + P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P318	IF exposed or concerned: Get medical advice.
P319	Get medical help if you feel unwell.
P333 + P317	If eye irritation persists: Get medical help.
P342 + P316	If experiencing respiratory symptoms: Get immediate emergency medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
2.3 Other hazards	None

## **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Not applicable

## 3.2 Mixture

Component	CAS-No	Formula	Concentration (Weight%)	Classification
Sulfuric acid	7664-93-9	H <sub>2</sub> SO <sub>4</sub>	≥92	Corrosive to metals (Category 1), H290 Skin corrosion (Category 1A), H314 Serious eye damage (Category 1), H318
Potassium dichromate	7778-50-9	K2Cr2O7	≥1.3%	Oxidizing solids (Category 2), H272 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 4), H312 Skin sensitization (Category 1), H317 Skin corrosion (Category 1B), H314 Respiratory sensitization (Category 1), H334 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1B), H360FD Specific target organ toxicity - repeated exposure (Category 1), H372 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing ar under medical supervision. No artificial acquisition mouth to mo
	or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.
Skin contact	Remove contaminated clothing and wash affected skin with soap and water. Dab with
	polyethylene glycol 400. If signs of poisoning appear, treat as for inhalation. Obtain
	medical attention. Wash contaminated clothing before reuse.
Eye contact	If the substance has got into the eyes, immediately wash out with plenty of water at least
	15 minutes. Obtain medical attention.
Ingestion	After swallowing: make victim drink water (two glasses at the most), avoid vomiting, risk of perforation. Immediately call in physician. Do not attempt to neutralize.

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

The most important known symptoms and effects are described in section 2.2 and section 11

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

Not Available

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

### Suitable extinguishing media

In adaption to materials stored in the immediate neighborhood.

#### 5.2 Special hazards arising from the substance or mixture

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. Hydrogen may form upon contact with metals (danger of explosion). The following may develop in event of fire: sulfur oxides, potassium oxides, chromium oxides.

#### 5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### 5.4 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

#### 6.3 Methods and materials for containment and cleaning up

Spillage : soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits. Transfer to covered drums. Dispose of promptly.

## 6.4 Reference to other sections

For disposal see Section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of good ventilation in the working area. The floor must be acid resistant. Suitable materials: generally resistant: Glass, Enamel. At lower temperatures: Polyethylene PE, Polyvinyl chloride, Polypropylene PP. At different concentrations and range of temperatures the resistance of metals may vary greatly. Before choosing materials of construction obtain specialized information. Unsuitable materials: non-noble metals. Do not leave container open. Avoid any contact when handling the substance.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water and incompatible materials. Requirements for containers, no metal containers.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

8.1 Control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

## Individual protection measures (Personal protective equipment, PPE) Eye/face protection

Goggles giving complete protection to eyes.

### **Skin protection**

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes. Handle with gloves

- Full contact wears gloves from viton material.

- Splash contact wears gloves from butyl rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

#### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter P2 (EN 141 or EN 14387).

#### **Environmental exposure controls**

Prevent liquid entering sewers, basements and workpits.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance: Form	Liquid
: Color	Brown
Odour	Characteristic
Odour Threshold	Not Available

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рН	Strongly acid at 25°C
Melting point/range	Not Available
Boiling point/range	Not Available
Flash point	Not Available
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Explosion limits: lower	Not Available
upper	Not Available
Vapor Pressure	Not Available
Relative Vapor Density	Not Available
Density	1.84 g/ml at 20°C
Water solubility	Soluble at 20°C (caution, development of heat)
Partition coefficient (n-octanol/water)	Not Available
Auto-Ignition temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive properties	Not Explosive
Oxidizing properties	May intensify fire; oxidizer.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Unsuitable working materials: metals, metal alloys.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

The substance can react dangerously with metals, combustible materials, organic materials, oxidizers, amines, bases.

#### 10.4 Conditions to avoid

Strong heating.

## **10.5 Incompatible materials**

Alkali metals, alkali compounds, ammonia, alkaline earth metals, alkaline earth compounds, alkalis, acid, combustible substances, organic solvents, halogenates, permanganate. Incompatible with various metals and metal alloys generates of sulfur oxide and Hydrogen gas.

### **10.6 Hazardous decomposition products**

Has a corrosive effect incompatible with metals, animals, vegetable tissues. Potassium oxides, chromium oxides, sulfur oxides, hydrogen gas (Hazardous decomposition products from under contact with metals, danger of explosion).

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute toxicity

Not Available

#### Acute oral toxicity

Severe pain (risk of perforation), nausea, vomiting and diarrhora. After a latency period of several weeks possibly pyloric stenosis.

#### Acute inhalation toxicity

Damage to the affected mucous membranes.

## Skin corrosion/irritation

Severe burns with formation of scabs.

## Serious eye damage/eye irritation

Burns, corneal lesions.

### **Respiratory or skin sensitization** Not Available

#### Germ cell mutagenicity

Not Available

#### Carcinogenicity

Animal experiments performed under conditions comparable with the workplace situation have shown the substance to be carcinogenic.

### **Reproductive toxicity**

Not Available

#### Teratogenicity

Not Available

## Specific target organ toxicity (STOT) - single exposure Not Available

Specific target organ toxicity (STOT) - repeated exposure Not Available

## Aspiration hazard

Not Available

### **Further information**

The product should be handled with the care usual when dealing with chemicals.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Not Available

## 12.2 Persistence and degradability

Not Available

### 12.3 Bioaccumulative potential Not Available

## 12.4 Mobility in soil

Not Available

### 12.5 Other adverse effects

Harmful effect on aquatic organisms. Harmful effect due to pH shift. Toxic effect on fish and algae. Caustic even in diluted form. Does not cause biological oxygen deficit. Endanger drinking water supplies if allowed to enter soil and/or waters in large quantities. Neutralization possible in waste water treatment plants. Do not allow to enter waters, waste water or soil.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

## Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### **Contaminated packaging**

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

## **SECTION 14: Transport information**

Land Transport (ADR/RID) UN Number UN proper shipping name	2240 CHROMOSULPHURIC ACID
Transport hazard class(es)	8
Packing group	
Environmental hazards	No
Special precautions for user	Yes
Sea transport (IMDG)	
UN Number	2240
UN proper shipping name	CHROMOSULPHURIC ACID
Transport hazard class(es)	8
Packing group	I
Marine pollutant	No
Special precautions for user	Yes
EmS	F-A S-B
Air transport (IATA)	
UN Number	2240
UN proper shipping name	CHROMOSULPHURIC ACID
Transport hazard class(es)	8
Packing group	I
Environmental hazards	No
Special precautions for user	No

## River transport (AND/ADNR)

(Not examined)

## **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Not Available

## **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## **SECTION 16: Other information**

Full text of H-Statements referred to under sections 2 and 3		
H314	Causes severe skin burns and eye damage.	
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H350	May cause cancer.	
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H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	

#### **Recommended restrictions**

Take notice of labels and safety data sheets for the working.

#### Reference

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Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

### **Further information**

Contact to RCI Labscan Limited.

## **Revision Date**

01/11/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.