



## 1. IDENTIFICATION

<b>Product Name:</b>	SASS 3010 Extraction Kit
<b>CAS Number:</b>	N/A
<b>Catalog Number:</b>	7000-162-234-02
<b>Manufacturer:</b>	Research International, Inc. 17161 Beaton Road S.E. Monroe, Washington 98272-1034 USA
<b>Telephone:</b>	01-800-927-7831
<b>Emergency Telephone:</b>	01-206-724-7905
<b>Recommended Use:</b>	Laboratory chemicals
<b>Restrictions on Use:</b>	Food, drug, pesticide, or biocidal product use.

## 2. HAZARD(S) IDENTIFICATION

<b>Emergency Overview:</b>	No specific hazard.		
<b>HMIS Rating:</b>	Health: 2	Flammability: 0	Reactivity: 0
			
<b>NFPA Rating:</b>	Health: 2	Flammability: 0	Reactivity: 0
			
<b>Routes of Entry:</b>	Avoid ingestion and inhalation; avoid contact with skin, eyes.		
<b>Threshold Limit Value (TLV) and Source:</b>	Data not available. To the best of our knowledge, the chemical, physical, and toxicological properties of the components of this kit have not been thoroughly investigated.		
<b>Potential Acute Health Effects:</b>	May cause skin, eye, or lung irritation. To the best of our knowledge, the chemical, physical, and toxicological properties of the components of this kit have not been thoroughly investigated. Allergy-prone individuals should be particularly cautious with proteins or other materials of biologic origin.		
<b>Carcinogenic Effects Data:</b>	Not available.		
<b>Chronic Effects of Overexposure:</b>	Not available.		
<b>Vapor Pressure (mm Hg):</b>	Not applicable.		

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Reagents:** In accordance with 29 CFR 1910.1200(d), kit reagents are not considered to be hazardous. They are mixtures that contain less than 1% hazardous chemicals and less than 0.1% carcinogenic chemicals.

138 mM sodium chloride (CAS# 7647-14-5)  
10 mM sodium phosphate (CAS# 13472-36-1)  
2.7 mM potassium chloride (CAS# 7447-40-7)  
0.05% Tergitol™ 15-S-7 (CAS# 84133-50-6)  
<0.1% sodium azide (CAS# 26628-22-8) in water

### 4. FIRST AID MEASURES

**Swallowing:** If any component of this kit is swallowed, wash mouth out with water, provided the person is conscious. Get medical attention.

**Skin:** If any component of this contacts the skin, immediately wash skin with soap and copious amounts of water.

**Inhalation:** If any component of this kit is inhaled, remove to fresh air. If not breathing, perform CPR and get immediate medical attention.

**Eyes:** If any component of this contacts the eyes, flush the eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

**Flammability:** May be combustible at high temperature.

**Flash Points:** Not available.

**Extinguishing Media:** Use dry chemical.

**Special Fire-Fighting Procedures:** Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment as required.

**Waste Disposal Method:** Soak up with inert absorbent material. Keep in suitable closed containers for disposal. Waste must be disposed of in accordance with federal, state, and local environmental control.

### 7. HANDLING AND STORAGE

**Handling:** Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

**Storage:** Store between 10 – 30°C. Keep containers tightly closed in a dry, well-ventilated place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies. Ensure that eyewash stations and safety showers are close to the workstation location.

**Engineering Measures:** Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Equipment:

**Eye/Face Protection -** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin/Body Protection -** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection -** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded, or if irritation or other symptoms are experienced.

**Hygiene Measures -** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State & Appearance:** Clear solution.

**Boiling Point:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Specific Gravity:** Not available.

**Melting Point:** Not available.

**Evaporation Rate:** Not available.

**Solubility in Water:** Solutions are dilutable.

**Stability and Reactivity:** The product is stable.

**Conditions to Avoid:** Not available.

**Materials to Avoid:** Not available.

**Hazardous Decomposition Products:** Not available.

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<b>Reactive Hazard:</b>	None known, based on information available
<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Incompatible products.
<b>Incompatible Materials:</b>	Oxidizing agent
<b>Hazardous Decomposition Products:</b>	Hydrogen chloride, Oxides of phosphorus, Potassium oxides, Sodium oxides
<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions:</b>	None under normal processing.

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity****Product information**

<b>Oral LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Dermal LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Vapor LC50</b>	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Sodium chloride	LD50 = 3 g/kg ( Rat )	LD50 > 10 g/kg ( Rabbit )	LC50 > 42 g/m3 ( Rat ) 1 h
Sodium phosphate	LD50 300 - 2000 mg/kg ( Rat )	LD50 > 2000 mg/kg ( Rabbit )	Not Listed
Potassium chloride	LD50 = 2600 mg/kg ( Rat )	Not listed	Not listed
Alcohols, C11-15-secondary, ethoxylated	LD50 = 2100 mg/kg ( Rat )	> 14 g/kg (Rat)	1.06 mg/L/4h (Rat)
Polyethylene glycol	LD50 = 22 g/kg ( Rat )	LD50 > 20 g/kg ( Rabbit )	Not listed
Sodium azide	LD50 = 27 mg/kg ( Rat )	LD50 = 50 mg/kg ( Rat )	LC50 = 37 mg/m3 ( Rat )

**Toxicologically****Synergistic Products:** No information available**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Irritation** No information available**Sensitization** No information available**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed

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Sodium chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium phosphate	13472-36-1	Not listed	Not listed	Not listed	Not listed	Not listed
Potassium chloride	7447-40-7	Not listed	Not listed	Not listed	Not listed	Not listed
Tergitol	84133-50-6	Not listed	Not Listed	Not listed	Not listed	Not listed

**Mutagenic Effects** No information available

**Developmental Effects** No information available

**Teratogenicity** No information available

**STOT - single exposure** None known

**STOT - repeated exposure** None known

**Aspiration hazard** No Information available

**Symptoms/effects, both acute and delayed** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chloride	Not listed	Pimephals prome: LC50: 7650 mg/L/96h	Not listed	EC50: 1000 mg/L/48h
Potassium chloride	EC50: 2500 mg/L/72h	Lepomis macrochirus: LC50: 1060 mg/L /96h Pimephales promelas: LC50: 750 - 1020 mg/L /96h	Not listed	EC50: 825 mg/L/48h
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	-	LC50: =3.2mg/L (96h, Pimephales promelas)	-	EC50: =3.2mg/L (48h, water flea)
Polyethylene Glycol 25322-68-3	-	LC50: >5000mg/L (24h, Carassius auratus)	-	-

**Persistence and Degradability** No information available.

**Bioaccumulation/ Accumulation** No information available.

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### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

### 15. REGULATORY INFORMATION

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory Notification - Active/Inactive	TSCA - EPA Regulatory Flags
Water	7732-18-5	X	ACTIVE	-
Sodium chloride	7647-14-5	X	ACTIVE	-
Sodium phosphate dibasic	7558-79-4	X	ACTIVE	-
Potassium chloride	7447-40-7	X	ACTIVE	-

#### Legend:

- TSCA** Toxic Substances Control Act, (40 CFR Part 710)
- X** Listed
- Not Listed
- XU** Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B))
- TSCA 12(b)** Notices of Export - Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Water	7732-18-5	X	-	231-791-2	X	X	X	X	KE-35400
Sodium chloride	7647-14-5	X	-	231-598-3	X	X	X	X	KE-31387
Sodium phosphate dibasic	7558-79-4	X	-	231-448-7		X			KE-12344
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	9002-93-1	X	-	-	X	-	X	X	KE-33568
Potassium chloride	7447-40-7	X	-	231-211-8	X	X	X	X	KE-29086

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Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium phosphate dibasic	X	5,000 lb	-	-

**Clean Air Act** Not applicable**OSHA – Occupational Safety and Health Administration** Not applicable**CERCLA** Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium phosphate dibasic	5,000 lb	-

**California Proposition 65** This product does not contain any Proposition 65 chemicals.**U.S. State Right-to-Know Regulations**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	X	-	-
Sodium phosphate dibasic	X	X	X	-	-

**U.S. Department of Transportation**Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.**Other International Regulations****Mexico - Grade** No information available**16. OTHER INFORMATION**

Revision Number: 2.0

Revision Date: June 1, 2023

The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Research International, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.