

## Safety Data Sheet

### RS-3801/ARMORGUARD

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#### **Section 1. Identification of the mixture and of the company**

##### **1.1 Product identifiers**

Product name: **RS-3801/ARMORGUARD**

Product aspect: rubber mixture

EC-No: none

REACH No.: A registration number is not available for this mixture

CAS-No: none

##### **1.2 Relevant identified uses of the mixture**

Unvulcanized rubber compound

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

Company: Soucy Techno Inc.

Address: 2550, St-Roch Sud Sherbrooke Québec, Canada, J1N 2R6

Tel: 1-819-864-4284

##### **1.4 Emergency telephone number**

Tel: 613 9966666 (CANUTEC)

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#### **Section 2. Hazards identifications**

##### **2.1 Classification of the substance or mixture**

###### **2.1.1 Classification**

Aquatic Acute 3 H402

Aquatic Chronic 3 H412

Skin Irritation 3 H316

###### **2.1.2 complementary information:**

Refer to section 16

##### **2.2 label elements**

Labeling: none

Signal word: Warning

Hazard statements

H316: Causes mild skin irritation.

H402: Harmful to aquatic life.

H412: Harmful to aquatic life with long lasting effects

### Precautionary statements

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash exposed and/or contaminated area thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents / container by a local waste disposal company according to regional regulations.

Supplemental Hazard Statements: none

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## **Section 3. Composition and information on ingredients**

### 3.1 substance

Not applicable

### 3.2 Mixture

<b>Name</b>	<b>CAS</b>	<b>Concentration %</b>
Hydrated aluminum silicate	1332-58-7	5-10
Silica, amorphous	7631-86-9	1-5
Sulfur	7704-34-9	1-5
Zinc oxide	1314-13-2	1-5
Titanium dioxide	13463-67-7	0.5-1.5
Silica (quartz)	14808-60-7	0,1-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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## **Section 4. First aid measures**

### 4.1 Description of first aid if required

Move out of dangerous area. Get medical attention. Show this safety data sheet to the doctor in attendance.

#### **Eye contact**

Immediately flush eyes with plenty of water. Check for and remove any contact lenses. Rinse eyes thoroughly with water for at least 15 minutes. Get medical attention.

#### **Skin contact**

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

### **Inhalation**

Bring the conscious victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, have qualified personnel give artificial respiration. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

### **Ingestion**

Wash out mouth with water. Bring the conscious victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick. Do not induce vomiting without advice from poison control center or a doctor. If vomiting occurs, have the individual lean forward with head down to avoid breathing in of vomit. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

#### **4.2 Indication of immediate medical attention and special treatment needed, if necessary**

Do not give anything by mouth to an unconscious victim. Get medical attention.

#### **4.3 Most important acute symptoms and effects**

No known specific effects and/or symptoms

#### **4.4 Most important delayed symptoms and effects**

No known specific effects and/or symptoms

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## **Section 5. Firefighting measures**

### **5.1 Suitable extinguishing media**

Water spray, Carbon dioxide, Foam, Dry Chemical.

### **5.2 Products of combustion**

Carbon dioxide  
Carbon monoxide  
Metal oxide

### **5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus and appropriate protective clothing.

### **5.2 Further information**

**Flammability of the product:** Flammable

**Flash point:** N/A

**Auto-ignition temperature:** N/A

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## **Section 6. Accidental release measures**

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

**For non-emergency personnel:** Evacuate the area.

**For emergency personnel:** Splash goggles, full suit, chemical resistant gloves. Suggested protective clothing might not be enough. Consult a specialist before handling this product.

### **6.2 Environmental precautions**

Do not let product enter drains

### **6.3 Methods and material for containment and cleaning up**

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

## **Section 7. Handling and storage**

### **7.1 Precautions in Handling**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands and face before eating, drinking and smoking. Do not handle until all safety precautions have been read and understood. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

### **7.2 Precautions in Storage**

Store in a cool, dry and well-ventilated place between 41°F (5°C) and 95°F (35°C)

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## **Section 8. Exposure controls / personal protections**

### **8.1 Control parameters**

<b>Component</b>	<b>CAS</b>	<b>Value</b>	<b>Control parameters</b>	<b>Basis</b>
Hydrated aluminum silicate	1332-58-7	TWA	2 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup>	NIOSH
		PEL	2 mg/m <sup>3</sup>	California permissible exposure limits
Silica, amorphous	7631-86-9	TWA	80 mg/m <sup>3</sup>	OSHA
		TWA	6 mg/m <sup>3</sup>	NIOSH
		PEL	6 mg/m <sup>3</sup>	California permissible exposure limits
Sulfur	7704-34-9		No occupational exposure limit value	
Zinc oxide	1314-13-2	TWA	2 mg/m <sup>3</sup> (inhalable fraction)	ACGIH
		STEL	10 mg/m <sup>3</sup> (inhalable fraction)	ACGIH
		TWA	5 mg/m <sup>3</sup>	OSHA
		TWA	5 mg/m <sup>3</sup> (inhalable fraction)	OSHA
Titanium dioxide	13463-67-7	TWA	10 mg/m <sup>3</sup>	ACGIH
		TWA	15 mg/m <sup>3</sup>	OSHA
		TWA	10 mg/m <sup>3</sup>	CNESST
Silica (quartz)	14808-60-7	TWA	0.05 mg/m <sup>3</sup>	OSHA
		TWA	0.05 mg/m <sup>3</sup>	NIOSH
		TWA	0.025 mg/m <sup>3</sup>	ACGIH
		PEL	0.05 mg/m <sup>3</sup>	California permissible exposure limits

## 8.2 Exposure controls

### Engineering controls

Use mechanical exhaust or laboratory fume hood to avoid exposure.

### Personal protective equipment

Personal protective equipment should be selected based on the task being performed and the risks involved. Equipment should be approved by a specialist before handling the product.

### Eyes:

Wear safety glasses when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, gases and dusts.

### Skin/body

Wear a lab coat or any other appropriate protective clothing.

### Respiratory

If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

### Hands

Wear chemical resistant protective gloves when a risk assessment indicates this is necessary.

Wash your hands after handling material.

### Control of environmental exposure

No special environmental precautions required.

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## **Section 9. Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- a) Appearance: solid rubber
- b) Odour: Typical odour of rubber
- c) Odour threshold: no data available
- d) pH: Data not available
- e) Melting point/Freezing point: Data not available
- f) Initial boiling point and boiling range: Data not available
- g) Flash point: Data not available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapor pressure: No data available
- l) Vapor density: No data available
- m) Relative density 1.00 - 1.06 g/cm<sup>3</sup> at 20 °C
- n) Water solubility: insoluble
- o) Partition coefficient: n-octanol/water: No data available
- p) Auto-ignition temperature > 315 °C
- q) Decomposition temperature above 260°C / 500°F
- r) Viscosity: No data available

s) Explosive properties: No data available

t) Oxidizing properties: No data available

## 9.2 Other safety information

No data available

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## **Section 10. Stability and reactivity**

### 10.1 Reactivity

When heated, the rubber polymerizes

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Avoid excessive heat.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

We find in major part some carbon monoxide and dioxide, due to carbon black and hydrocarbon, at all temperatures, possible emission of sulfur, nitrogen and formaldehyde.

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## **Section 11. Toxicological information**

### 11.1 Information on toxicological effects

a) Acute

Component	CAS	Value
Hydrated aluminum silicate	1332-58-7	No data available
Silica, amorphous	7631-86-9	No data available
Sulfur	7704-34-9	DL <sub>50</sub> Oral: Rat > 2000 mg/kg DL <sub>50</sub> Cutaneous: Rat > 2000 mg/kg
Zinc oxide	1314-13-2	DL <sub>50</sub> Oral: Mouse = 7950 mg/kg
Titanium dioxide	13463-67-7	DL <sub>50</sub> Oral: Rat > 10000 mg/kg DL <sub>50</sub> Cutaneous: Rabbit > 10000 mg/kg
Silica (quartz)	14808-60-7	No data available

b) Skin corrosion/irritation: cause skin irritation

c) Serious eye damage/irritation: Not applicable

d) Respiratory or skin sensitization: Not applicable

e) Gem cell mutagenicity: Not applicable

f) Carcinogenicity:

Titanium dioxide and silica (quartz)

contained in this material is totally bounded to the polymer, so cannot be inhaled under conditions of intended product use.

g) Reproductive toxicity: Not applicable

h) STOT- Single exposure: Not applicable

i) STOT- repeated exposure:

Silica (quartz)

contained in this material is totally bounded to the polymer, so cannot be inhaled and ingested under conditions of intended product use.

j) Aspiration hazard: Not applicable

k) Information on likely route of exposure: Not applicable

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## **Section 12. Ecological information**

### **12.1 Toxicity**

<b>Component</b>	<b>CAS</b>	<b>Value</b>
Hydrated aluminum silicate	1332-58-7	No data available
Silica, amorphous	7631-86-9	No data available
Sulfur	7704-34-9	CL <sub>50</sub> - Oncorhynchus mykiss (rainbow trout) > 180 mg/L - 96h CL <sub>50</sub> - Fish 866 mg/L - 96h CL <sub>50</sub> - Daphnia magna > 5000 mg/L - 48h
Zinc oxide	1314-13-2	CL <sub>50</sub> - Oncorhynchus mykiss (rainbow trout) 1.1 ppm - 96h CL <sub>50</sub> - Daphnia magna 0.098 mg/L - 48h CE <sub>50</sub> - Pseudokirchneriella subcapitata 0.042 mg/L - 72h
Titanium dioxide	13463-67-7	CL <sub>50</sub> - Fish 1000 mg/L - 96h CE <sub>50</sub> - Daphnia magna 1000 mg/L - 48h
Silica (quartz)	14808-60-7	No data available

### **12.2 Persistence and degradability**

Data not available

### **12.3 Bioaccumulative potential**

Data not available

### **12.4 Mobility in soil**

Data not available

### **12.5 Results of PBT and vPvB assessment**

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Other adverse effects**

Zinc oxide: Very toxic to aquatic life with long lasting effects if discharged in waters.

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## **Section 13. Disposal considerations**

### **13.1 Waste disposal**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

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## **Section 14. Transportation information**

### **14.1 UN Numbers**

ADR/RID: -

IMDG: -

IATA: -

### **14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### **14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

### **14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

### **14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### **14.6 Special precautions for user**

No data available

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## **Section 15. Regulatory information**

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

SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, section 302.

SARA 313:

The following components are subject to reporting levels established of SARA Title III, section 313.

Zinc oxide

CAS-No 1314-13-2

SARA 311/312:

Chronic Health Hazard

Massachusetts Right to Know Components:

Hydrated aluminum silicate, Kaolin

CAS-No 1332-58-7

Amorphous silica

CAS-No 7631-86-9

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Sulfur	CAS-No.7704-34-9
Zinc oxide	CAS-No 1314-13-2
Titanium dioxide	CAS-No 13463-67-7

Pennsylvania Right to Know Components:

Hydrated aluminum silicate, Kaolin	CAS-No 1332-58-7
Amorphous silica	CAS-No 7631-86-9
Sulfur	CAS-No.7704-34-9
Zinc oxide	CAS-No 1314-13-2
Titanium dioxide	CAS-No 13463-67-7
Silica (quartz)	CAS-No 14808-60-7

New Jersey Right to Know Components:

Hydrated aluminum silicate, Kaolin	CAS-No 1332-58-7
Sulfur	CAS-No.7704-34-9
Zinc oxide	CAS-No 1314-13-2
Titanium dioxide	CAS-No 13463-67-7
Silica (quartz)	CAS-No 14808-60-7

California Proposition 65 Components:

Titanium dioxide	CAS-No 13463-67-7
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(Titanium dioxide in this preparation, due to its bound form, does not present this carcinogenic risk)

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

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## **Section 16. Additional information**

### **Full text of H-Statements referred in section 2:**

H402: Short-term (acute) aquatic hazard (Category 3)  
H412: Long-term (chronic) aquatic hazard (Category 3)  
H316: Skin irritation (Category 3)

### **Date of issue:**

2020-06-11

### **Version:**

1.1

### **Elaborated by:**

Soucy Techno

### **Notice to reader:**

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### Key to abbreviations:

CANUTEC: Canadian Transport Emergency Centre

CAS: Chemical Abstracts Service (division of American Chemical Society)

EC: European Community number

TWA: Time-Weighted Average limit

STEL: Short-Term Exposure limit

PEL: Permissible Exposure limit

ACGIH: American Conference of Governmental Industrial Hygienists

CNESST: Commission des Normes, de l'Équité, de la Santé et de la Sécurité du Travail

OSHA: Occupational Safety and Health Administration

GHS: Globally Harmonized System of classification and labelling of chemicals

IMDG: International Maritime Dangerous Goods

TDG: Transportation of Dangerous Goods regulations

DOT: Department of Transportation regulation

IATA: International Air Transport Association

### References:

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) <http://www.hc-sc.gc.ca/a>*