

Safety Data Sheet

RS-4002

Section 1. Identification of the mixture and of the company

1.1 Product identifiers

Product name: **RS-4002**

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)

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:

none

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.

Section 3. Composition and information on ingredients

3.1 substance

Not applicable

3.2 Mixture

Name	CAS	Concentration %
Carbon black	1333-86-4	30-60
Hydrated aluminum silicate	1332-58-7	1-5
Zinc oxide	1314-13-2	1-5
Sulfur	7704-34-9	0.5-1.5
Calcium oxide	1305-78-8	0.5-1.5

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.

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

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

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)

Section 8. Exposure controls / personal protections

8.1 Control parameters

Component	CAS	Value	Control parameters	Basis
Carbon black	1333-86-4	TWA	3.5 mg/m ³	ACGIH
		TWA	3.5 mg/m ³	CNESST
Hydrated aluminum silicate	1332-58-7	TWA	2 mg/m ³	ACGIH
		TWA	5 mg/m ³	NIOSH
		PEL	2 mg/m ³	California permissible exposure limits
Zinc oxide	1314-13-2	TWA	2 mg/m ³ (inhalable fraction)	ACGIH
		STEL	10 mg/m ³ (inhalable fraction)	ACGIH
		TWA	5 mg/m ³	OSHA
		TWA	5 mg/m ³ (inhalable fraction)	OSHA
Sulfur	7704-34-9		No occupational exposure limit value	
Calcium oxide	1305-78-8	TWA	5 mg/m ³	OSHA
		TWA	2 mg/m ³	ACGIH
		PEL	2 mg/m ³	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.

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 1.17 - 1.23 g/cm³ 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

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.

Section 11. Toxicological information

11.1 Information on toxicological effects

a) Acute

Component	CAS	Value
Carbon black	1333-86-4	DL ₅₀ Oral: Rat > 8000 mg/kg DL ₅₀ Cutaneous: Rabbit > 3000 mg/kg
Hydrated aluminum silicate	1332-58-7	No data available
Zinc oxide	1314-13-2	DL ₅₀ Oral: Mouse = 7950 mg/kg
Sulfur	7704-34-9	DL ₅₀ Oral: Rat > 2000 mg/kg DL ₅₀ Cutaneous: Rat > 2000 mg/kg
Calcium oxide	1305-78-8	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:

Carbon black and Silica (quartz)

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

h) STOT- Single exposure: Not applicable

i) STOT- repeated exposure: STOT- repeated exposure: none

j) Aspiration hazard: Not applicable

k) Information on likely route of exposure: Not applicable

Section 12. Ecological information

12.1 Toxicity

Component	CAS	Value
Carbon black	1333-86-4	CL ₅₀ - Danio rerio 1000 mg/L - 96h CE ₅₀ - Daphnia magna 5600 mg/L - 24h CE ₅₀ - Desmodesmus subspicatus 10000 mg/L - 72h
Hydrated aluminum silicate	1332-58-7	No data available
Zinc oxide	1314-13-2	CL ₅₀ - Oncorhynchus mykiss (rainbow trout) 1.1 ppm - 96h CL ₅₀ - Daphnia magna 0.098 mg/L - 48h CE ₅₀ - Pseudokirchneriella subcapitata 0.042 mg/L - 72h
Sulfur	7704-34-9	CL ₅₀ - Oncorhynchus mykiss (rainbow trout) > 180 mg/L- 96h CL ₅₀ - Fish 866 mg/L - 96h CL ₅₀ - Daphnia magna > 5000 mg/L - 48h
Calcium oxide	1305-78-8	CL ₅₀ - Cyprinus carpio 1070 mg/L - 96h

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.

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.

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

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:

Carbon black CAS-No 1333-86-4

Hydrated aluminum silicate, Kaolin CAS-No 1332-58-7

Zinc oxide CAS-No 1314-13-2

Sulfur CAS-No.7704-34-9

Calcium oxide CAS-No 1305-78-8

Pennsylvania Right to Know Components:

Carbon black CAS-No 1333-86-4

Hydrated aluminum silicate, Kaolin CAS-No 1332-58-7

Zinc oxide CAS-No 1314-13-2

Sulfur CAS-No.7704-34-9

Calcium oxide CAS-No 1305-78-8



New Jersey Right to Know Components:

Carbon black	CAS-No 1333-86-4
Hydrated aluminum silicate, Kaolin	CAS-No 1332-58-7
Zinc oxide	CAS-No 1314-13-2
Sulfur	CAS-No.7704-34-9
Calcium oxide	CAS-No 1305-78-8

California Proposition 65 Components:

Carbon black	CAS-No 1333-86-4
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(Carbon black 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

Section 16. Additional information

Date of issue:

2023-06-15

Version:

1.1

Elaborated by:

Soucy Techno

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither Soucy Techno Inc., nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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>*