



## Safety Data Sheet

### Section 1: Material/Company Identification

**PRODUCT NAME:** C.I.AGENT®

**CHEMICAL FAMILY:**

Styrene-Butadiene-Styrene Polymer

**PRODUCT FAMILY:** Thermoplastic Elastomer

**CORPORATE OFFICE**

C.I.Agent Solutions®, LLC  
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### Section 2: Hazards Identification

**HMIS Hazard Class**

Health: 0 Flammability: 1 Physical Hazards: 0

**Human Health Hazards**

None

**Environmental Hazards**

None

**Safety Hazards**

Electrostatic charges may be generated during handling. Risk of self-ignition of bulk product above certain temperatures (Refer to Section 10). Specifically for milled grades and accumulated polymer dust: dust explosion could occur.

**Special Notes**

These components are synthetic rubber compounds, which are essentially non-toxic. Material is non-irritating. If polymer dusts are generated, they could scratch the eyes and cause minor irritation to the respiratory tract.

### Section 3: Composition

SUBSTANCES ARE NON-HAZARDOUS and NOT CLASSIFIED.

In accordance with provisions of the OSHA Hazard Communication Rule Trade Secrets (§1910.1200(i)), the specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: First Aid Measures

**Symptoms and Effects**

None

**Eyes**

Flush eyes with water.

**Inhalation**

If dust is inhaled, obtain medical attention.

**Ingestion**

None

**Skin**

Flush skin with water.

**Advice to physicians**

Treat symptoms.

### Section 5: Fire Fighting Measures

**NFPA 704 Hazard Class**

Health: 0 Flammability: 1 Instability: 0

**Specific Hazards**

Not flammable but will burn. Combustion products may include carbon monoxide and carbon dioxide.

**Extinguishing Media**

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media**

Water in a spray may disperse fire.

**Protective Equipment**

Full protective clothing and self contained breathing apparatus.

## Section 6: Accidental Release Measures

### Personal Precautions

Avoid generating dust.

### Environmental Precautions

None

### Clean-up Methods - Small Spillage

Shovel up and place in a labeled, sealable container for subsequent disposal as required by local, state, federal, international or country specific regulations.

### Clean-up Methods - Large Spillage

Transfer to a labeled, sealable container for product recovery or disposal as required by local, state, federal, international or country specific regulations.

### Protective Measures

Wear appropriate personal protective equipment (refer to Section 8) when responding to spills.

### Spill Management

Shovel and sweep up or use industrial vacuum cleaner. Proper disposal should be evaluated based on the regulations of this material (refer to Section 13). Prevent entry into waterways, sewer, or confined areas.

## Section 7: Handling and Storage

### Handling

Avoid generation of dust. Take precautionary measures against static discharges, earth/ground all equipment. Do not breathe dust. Use local exhaust over processing area.

When processing C.I.Agent Solutions' C.I.Agent® products, maintain a fire watch if the material reaches 280° C (536° F). The temperature listed are indicated only for safety reasons (risk of fire and product degradation) and are not recommended for processing.

Degradation of the polymer (polymer breakdown) will start at lower temperatures depending on the specific processing conditions. Therefore, operating below these temperatures does not guarantee the absence of product degradation.

Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors or in high airborne dust concentrations. Considering the risks of electrostatic discharges, handling the products in potentially flammable atmospheres should be evaluated carefully. Suitable precautions should be taken at all times, in particular when emptying bags or other packaging. Earth/Ground equipment to dissipate charges that may develop. For more information contact your C.I.Agent® sales representative.

### Storage

Keep container dry. Keep in a cool, well-ventilated place. All C.I.Agent® polymers contain an antioxidant to aide in stabilizing the polymer over its recommended use and storage conditions. Exposure to direct sunlight or elevated temperatures over prolonged periods of time consumes the antioxidant at an increased rate and may lead to self heating and thermal degradation. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags.

### Storage Temperatures

Ambient.

### Product Transfer

Take precautionary measures against static discharge. Earth/Ground all equipment.

### Other Information

C.I.Agent® polymers may accumulate static charge during transport, handling and processing. Reducing the velocity of material transfer will reduce the likeliness that a charge will be created.

## Section 8: Exposure Controls/Personal Protection

### Occupational Exposure

In the absence of occupational exposure standards for this product, it is recommended that the following be adopted:

### Nuisance Dust TLV

TWA (8 h) 10 mg/m<sup>3</sup> If dust is generated.

### Engineering Control Measures

Use local exhaust ventilation.

### Respiratory Protection

Where local exhaust ventilation is not practicable and odors are detected, use a negative pressure half face

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respirator equipped with a cartridge designed to protect against organic vapors and if dust is also present a particulate pre-filter should also be used. For high airborne dust concentrations use a cartridge designed to be used against nuisance dust.

#### **Hand Protection**

Cloth gloves if desired.

#### **Eye Protection**

Dust-tight mono goggles.

#### **Body Protection**

Standard issue work clothes which may include: apron, safety shoes or boots as necessary.

## **Section 9: Physical and Chemical Properties**

**Physical State:** Solid  
**Color:** Clear or White  
**Odor:** Essentially orderless  
**Flash Point:** N/A  
**Density:** Typically between 880-950 kg/m<sup>3</sup> at 20° C  
**Specific Gravity:** <1  
**Bulk Density (for solids):** Typical 300-400 kg/m<sup>3</sup> at 20° C  
**Solubility (in water):** Insoluble  
**N-octanol/water partition coefficient (log Pow):** Not applicable

**All other properties are not applicable.**

**Residual monomers:** We do not routinely measure but analysis of representative products indicate isoprene, styrene, and 1,3-butadiene are not present at the detection limit of our instrumentation. Based on our manufacturing processes, we believe these results are typical for our polymers.

## **Section 10: Reactivity and Stability**

#### **Stability**

Stable under ambient conditions. Oxidizers exothermically above ambient temperature.

#### **Conditions to Avoid**

Avoid contact with strong oxidizing agents. Accumulation of product in areas exposed to elevated temperatures for extended periods in air may result in self-heating and auto ignition. Avoid elevated temperatures in storage for prolonged periods of time.

#### **Hazardous Decomposition Products**

Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions.

None under ambient conditions. Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is over heated, is smoldering or catches fire. Typical decomposition products are ultimately oxides of carbon.

## **Section 11: Toxicological Information**

#### **Basis for Assessment**

Toxicological data has not been determined for this product. Information is based on similar products.

#### **Acute Toxicity Oral**

Expected to be of low toxicity, LD<sub>50</sub> > 2000 mg/kg

#### **Acute Toxicity Dermal**

Expected to be of low toxicity, LD<sub>50</sub> > 2000 mg/kg

#### **Acute Toxicity Inhalation**

LC<sub>50</sub> > 100,000 ppm

#### **Skin Irritation**

Not expected to be irritating.

#### **Eye Irritation**

Not expected to be irritating.

#### **Skin Sensitization**

Not expected to be a skin sensitizer.

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### **Repeated Dose Toxicity**

Repeated exposure does not cause toxic effects.

### **Mutagenicity**

No data available, but not expected.

This product is not classified by the following: The International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP) or The American Conference of Governmental Industrial Hygienists (ACGIH).

### **Other Information**

C.I.Agent® Polymers are high molecular weight polymers which are non-toxic and biologically inactive.

We do not intentionally add organotin compounds or phthalates to our products.

These products are manufactured with synthetic raw materials that do not contain animal products or by-products.

C.I.Agent® Polymers do not contain natural rubber or natural rubber latex.

We do not use naturally occurring food allergens.

## **Section 12: Ecological Information**

### **Basis for Assessment**

No ecotoxicological data has been generated for this product. The information below is based on components and on similar products.

### **Mobility**

Floats on water. Remains on surface of soil.

### **Persistence/Degradability**

Not expected to be inherently biodegradable. Persists under anaerobic conditions.

### **Bioaccumulation**

Not expected to bioaccumulate.

### **Acute Toxicity - Fish**

Expected to be practically non-toxic, LC/EC/IC 50 > 1000 mg/L

### **Acute Toxicity - Invertebrates**

Expected to be practically non-toxic, LC/EC/IC 50 > 1000 mg/L

### **Acute Toxicity - Algae**

Expected to be practically non-toxic, LC/EC/IC 50 > 1000 mg/L

### **Acute Toxicity - Bacteria**

Expected to be practically non-toxic, LC/EC/IC 50 > 1000 mg/L

### **Sewage Treatment**

Expected to be practically non-toxic, LC/EC/IC 50 > 1000 mg/L

## **Section 13: Disposal Considerations**

### **Product Disposal**

Recover or recycle if possible; otherwise; incinerate or use a licensed landfill.

### **Container Disposal**

Remove all packaging for recovery or disposal.

### **Local Legislation**

Consult local, state, federal, international or country specific regulations as appropriate.

### **FEDERAL LEGISLATION**

#### **Resource Conservation and Recovery Act - RCRA (40CFR 261)**

If this product becomes a waste and has not been chemically altered, it is not considered a hazardous waste.

#### **Emergency Planning and Community Right-to-Know Act (EPCRA)**

Not regulated.

#### **Comprehensive Environmental Response, Compensation and Liability Act (CERCLA/Superfund)**

Not regulated.

#### **Superfund Amendments and Reauthorizations Act Title III:**

Section 302 - Extremely Hazardous Substances

Section 304 - Hazardous Substances

Section 311/312 - Hazard Communication Standard

Section 313 - Toxic Chemical List

Not regulated.

## Section 14: Transport Information

### US Department of Transportation (DOT) 49CFR 171-180

This product is not classified as hazardous.

### International Air Transportation Association Classification (IATA)

This product is not classified as hazardous.

### International Maritime Organization (IMDG)

This product is not classified as hazardous.

### UN, IMO, ADR/RID, ICAO Code

This product is not dangerous.

### Harmonized Tariff System (HTS)

Harmonized System Number: 4002.19

### Export Administration Regulations

Does not require a license: EAR 99

## Section 15: Regulatory Information

### INTERNATIONAL LEGISLATION

#### GLOBAL CHEMICAL INVENTORY STATUS - All of the substances are acceptable for use under:

- AUSTRALIA - Inventory of Chemical Substances (AICS)
- CANADA - (CEPA) Domestic Substances List (DSL)
- CHINA - Inventory of Existing Chemical Substances (IECSC)
- EU - European Inventory of Existing Chemical Substances (EINECS)
- JAPAN - Inventory of Existing and New Chemical Substances (IENCSC)
- KOREA - Existing Chemicals Inventory (KECI)
- NEW ZEALAND - New Zealand Inventory of Chemicals (NZIOC)
- PHILIPPINES - Inventory of Chemicals and Chemical Substances (PICCS)
- USA - Toxic Substances Control Act (TSCA)

This document is compliant with the Globally Harmonized System (GHS) for the classification, labeling, and packaging (CLP) of substances and mixtures.

EU REACH Article 29 (Requirements for Safety Data Sheets) and Japan Ministry of Economy, Trade, and Industry (METI), Ministry of Health, Labor, and Welfare (MHLW) and Ministry of the Environment (MOE).

EU Directive 67/548/EEC, 1999/45/EC, 91/155/EEC, as amended by GHS (CLP) of substances and mixtures  
Not classified.

#### OSHA Hazard Communication Standard 29FR 1910.1200

Not classified.

AUSTRALIAN MSDS LEGISLATION: National Code of Practice for the Preparation of Material Safety Data Sheets, 2<sup>nd</sup> Edition [NOHSC: 2011 (2003)] under s.38(i) of the *National Occupational Health and Safety Commission Act 1985* (Cwlth).

Not regulated.

#### CANADA Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required. This is NOT a WHMIS controlled product.

#### EU Regulation (EC) 1907/2006 REACH

Polymers are exempted from registration and evaluation. Therefore, C.I.Agent® products are exempted by regulation. Annex V exempts from registration additives used in our polymers as antioxidants, defoaming agents, stabilizers, etc., and exempts substances that are naturally occurring that have not been chemically modified, Article 2(7)(b). Use of our products in medical devices regulated by Council Directive 90/385/EEC of 20 June 1990 and 93/42/EEC of 14 June 1993 and Directive 98/79/EC, or used in cosmetic products by Directive 76/768/EEC or used as a food contact material under Regulation (EC) No 1935/2004 are also exempted.

#### International Nomenclature of Cosmetic Ingredients (INCI)

Styrene/Butadiene Copolymer

EU Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) in electrical and electronic equipment

Restricted substances: Lead, Mercury, Cadmium, Hexavalent Chromium, PBB and PBDE  
Not regulated.

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**EU Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)**

Not regulated.

**EU Directive 91/689/EEC Hazardous Waste**

Not regulated.

**EU Directive 94/62/EC as amended by 2004/12/EC (Packaging and packaging waste)**

Not regulated. The product meets the requirement for the total amount of cadmium, chromium, lead and mercury to be less than 100 parts per million.

**EU Directive 2000/53/EC as amended in 2002 (End of life vehicle)**

Not regulated.

**EU Directive 2037/2000 Ozone Depleters (Class I or II) as defined in Montreal Protocol**

Not regulated.

**Article 19g(5) Federal Water Management Act (WHG) of 17 May 1999 (amended in July 2005)**

Our products are classified into the Water Hazard Class WGK 1.

**International Conventions**

**Chemical Weapons, Rotterdam PIC (Prior Informed Consent), Persistent Organic Pollutants (POP), Drug Precursors**

Not regulated.

**UNITED STATES: FEDERAL REGULATIONS**

**Food and Drug Administration (FDA) 21 CFR 170-199**

Products on this SDS may conform with uses under food contact regulations as an article or a component of an article intended for food contact. Most C.I.Agent® Polymers comply with worldwide regulations for food contact applications, including those of the Food and Drug Administration (FDA) and the European regulatory agencies.

**Toxic Substances Control Act (TSCA) Section 4, 5(a)(2), (e), (f), 6, 7 or 12(b)**

Not regulated.

**Clean Air Act Amendments Section 602 (Class I or II) Ozone Depleters**

Not regulated.

**Clean Air Act Section 111 Volatile Organic Compounds (VOC)**

Not regulated.

**Clean Air Act Section 112 Hazardous Air Pollutants (HAP)**

Not regulated.

**Clean Water Act Section 307 Priority Pollutants**

Not regulated.

**UNITED STATES: STATE REGULATIONS**

**Right-to-Know Laws (Massachusetts, New Jersey, New York State, Pennsylvania)**

Not regulated.

**Coalition of Northeastern Governors (CONEG)**

Not regulated. The product meets the requirement for the total amount of cadmium, chromium, lead and mercury to be less than 100 parts per million.

**Section 16: Other Information**

**Last Revision Date:** 11/18/2015

**Preparation Date:** 06/24/2015

**Other Information**

® C.I.Agent Solutions and C.I.Agent, along with their logos, are trademarks owned by Immediate Response Spill Technologies, LLC of Louisville, Kentucky.

**Disclaimer**

The information in this document is based on our current knowledge and is intended to describe the product for the purposes of Health, Safety and Environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Advice in this document relates only to the product as originally supplied. Where other ingredients are added in the processing of this product, advice should be sought on their safe handling and use.