

## Safety Data Sheet

**Material Name:** Low VOC Step 1 Activator

**Product #:**332651

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

Low VOC Step 1 Activator

**Chemical Family**

Adhesive

**Product Use**

Low VOC Adhesive

**Restrictions on Use**

For industrial use only.

**Manufacturer Information**

Versico LLC

1285 Ritner Highway

Carlisle, PA 17013

USA

Phone: +1-800-992-7663

Emergency Phone #: +1-800-424-9300 (CHEMTREC)

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### Section 2 - HAZARDS IDENTIFICATION

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Serious Eye Damage/Eye Irritation - Category 2A

Skin Sensitization - Category 1A

Specific Target Organ Toxicity - Single Exposure - Category 1 ( central nervous system )

Specific Target Organ Toxicity - Single Exposure - Category 2 ( kidneys )

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( central nervous system, peripheral nerve system )

Specific Target Organ Toxicity - Repeated Exposure - Category 2 ( blood )

**GHS Label Elements**

**Symbol(s)**



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**Signal Word**

Danger

**Hazard Statement(s)**

Highly flammable liquid and vapor

May be fatal if swallowed and enters airways

Causes serious eye irritation

May cause allergic skin reaction

Causes damage to organs

May cause damage to organs

May cause respiratory irritation. May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statement(s)**

**Prevention**

Keep container tightly closed

Keep away from heat/sparks/open flame/hot surfaces - No smoking

Ground/Bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Take precautionary measures against static discharge

Use only non-sparking tools

Use only outdoors or in a well-ventilated area

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

Do not breathe dust/fume/gas/mist/vapours/spray

Wash thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

Do not eat, drink or smoke when using this product

**Response**

In case of fire: Use appropriate media to extinguish

If exposed or concerned: Call a POISON CENTER or doctor/physician

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER/doctor

Do NOT induce vomiting

Specific treatment (see label)

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**Storage**

Store in a well-ventilated place. Keep container tightly closed  
Keep cool  
Store locked up

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations

**Other Hazards**

No additional information available.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
Trade Secret	Polyphenol antioxidant	0.1-1
7704-34-9	Sulfur	0.1-1
137-26-8	Tetramethylthiuram disulfide	0.1-1
108-88-3	Toluene	1-5
67-64-1	Acetone	60-100

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### Section 4 - FIRST AID MEASURES

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**Description of Necessary Measures**

If exposed or concerned: Call a POISON CENTER or doctor/physician.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin**

Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention.

**Eyes**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Ingestion**

Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

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**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

**Most Important Symptoms/Effects**

**Acute**

May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys. May cause respiratory irritation. May cause drowsiness or dizziness.

**Delayed**

Causes damage to organs through prolonged or repeated exposure. central nervous system, peripheral nerve system, blood.

**Note to Physicians**

Contains: toluene, acetone.

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### Section 5 - FIRE FIGHTING MEASURES

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**Extinguishing Media**

**Suitable Extinguishing Media**

Dry chemical, foam or carbon dioxide. Water may be ineffective.

**Unsuitable Extinguishing Media**

Do not use high-pressure water streams.

**Special Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

**Hazardous Combustion Products**

Oxides of carbon, various hydrocarbons, nitrogen compounds, hydrogen cyanide

**Advice for firefighters**

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges.

**Fire Fighting Measures**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

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### Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

### Environmental Precautions

Avoid release to the environment.

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## Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/fume/vapour/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. **KEEP OUT OF REACH OF CHILDREN.**

### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed

Keep cool

Store locked up

Keep away from heat and ignition sources. Keep separated from incompatible substances. Do not cut, puncture, or weld on or near this container.

### Incompatible Materials

Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Component Exposure Limits

<b>Tetramethylthiuram disulfide</b>	137-26-8	
ACGIH:	0.05 mg/m3 TWA inhalable fraction and vapor	
NIOSH:	5 mg/m3 TWA	100 mg/m3 IDLH
OSHA (US):	5 mg/m3 TWA	
Mexico:	1 mg/m3 TWA LMPE-PPT	

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<b>Toluene</b>	108-88-3	
ACGIH:	20 ppm TWA	
NIOSH:	100 ppm TWA; 375 mg/m <sup>3</sup> TWA	150 ppm STEL; 560 mg/m <sup>3</sup> STEL
	500 ppm IDLH	
Europe:	50 ppm TWA; 192 mg/m <sup>3</sup> TWA	100 ppm STEL; 384 mg/m <sup>3</sup> STEL
	Possibility of significant uptake through the skin	
OSHA (US):	200 ppm TWA	300 ppm Ceiling
Mexico:	50 ppm TWA LMPE-PPT; 188 mg/m <sup>3</sup> TWA LMPE-PPT	
	Skin - potential for cutaneous absorption	
<b>Acetone</b>	67-64-1	
ACGIH:	250 ppm TWA	500 ppm STEL
NIOSH:	250 ppm TWA; 590 mg/m <sup>3</sup> TWA	2500 ppm IDLH (10% LEL)
Europe:	500 ppm TWA; 1210 mg/m <sup>3</sup> TWA	
OSHA (US):	1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA	
Mexico:	1000 ppm TWA LMPE-PPT; 2400 mg/m <sup>3</sup> TWA LMPE-PPT	
	1260 ppm STEL [LMPE-CT]; 3000 mg/m <sup>3</sup> STEL [LMPE-CT]	

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide for sufficient ventilation. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear chemical safety goggles. Maintain eye wash fountain and quick-drench shower in work area.

#### Skin Protection

Wear work clothes with long sleeves. White protective boots. Recommended material: protective skin cream.

#### Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

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**Glove Recommendations**

Wear impermeable gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	pale yellow or amber	<b>Physical State</b>	liquid
<b>Odor</b>	ketone odor	<b>Color</b>	pale,yellow or amber
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	-95 - -93 °C (-139--135 °F)	<b>Boiling Point</b>	56 - 111 °C (133-231 °F)
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	6.1
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	465 °C (869 °F)	<b>Flash Point</b>	-18 °C(-0.4°F)
<b>Lower Explosive Limit</b>	1.3 %	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	12.8 %	<b>Vapor Pressure</b>	171.9 mmHg
<b>Vapor Density (air=1)</b>	2.1	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Negligible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	200 cps	<b>Solubility (Other)</b>	Not available
<b>Density</b>	0.820 (relative)	<b>VOC</b>	<250 g/L

**Other Information**

No additional information available.

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable under normal conditions of use.

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**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

**Hazardous decomposition products**

Oxides of carbon, various hydrocarbons, nitrogen compounds, hydrogen cyanide

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### Section 11 - TOXICOLOGICAL INFORMATION

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**Information on Likely Routes of Exposure**

**Inhalation**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Skin Contact**

May cause mild skin irritation. May cause allergic skin reaction.

**Eye Contact**

Causes serious eye irritation.

**Ingestion**

May be fatal if swallowed and enters airways.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Acrylonitrile-butadiene rubber (Mixture)

Oral LD50 Rat >30 g/kg

Dermal LD50 Rabbit >15 g/kg

Polyketone resin (Trade Secret)

Oral LD50 Rat >10000 mg/kg

Polyphenol antioxidant (Trade Secret)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >5000 mg/kg

Inhalation LC50 Rat >165 mg/L 1 h

Sulfur (7704-34-9)

Oral LD50 Rat >5050 mg/kg

Dermal LD50 Rabbit >2020 mg/kg

Inhalation LC50 Rat >5.49 mg/L

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Tetramethylthiuram disulfide (137-26-8)

Oral LD50 Rat 560 mg/kg

Dermal LD50 Rat >2000 mg/kg

Inhalation LC50 Rat 500 mg/m<sup>3</sup> 4 h

Toluene (108-88-3)

Oral LD50 Rat >7000 mg/kg

Dermal LD50 Rabbit 12 - 14 g/kg

Inhalation LC50 Rat 30 - 35 mg/L

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Dermal LD50 Guinea pig >7246 mg/kg

Inhalation LC50 Rat 32000 ppm 4 h

### Immediate Effects

May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys. May cause respiratory irritation. May cause drowsiness or dizziness.

### Delayed Effects

Causes damage to organs through prolonged or repeated exposure: central nervous system, peripheral nerve system, blood.

### Irritation/Corrosivity Data

Causes serious eye irritation. May cause respiratory irritation.

### Respiratory Sensitization

No data available.

### Dermal Sensitization

May cause allergic skin reaction.

### Component Carcinogenicity

<b>Tetramethylthiuram disulfide</b>	137-26-8
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 53 [1991]; Supplement 7 [1987] (Group 3 (not classifiable))
<b>Toluene</b>	108-88-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

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<b>Acetone</b>	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

### **Germ Cell Mutagenicity**

No data available.

### **Reproductive Toxicity**

No data available.

### **Specific Target Organ Toxicity - Single Exposure**

kidneys, central nervous system

### **Specific Target Organ Toxicity - Repeated Exposure**

blood, peripheral nerve system, central nervous system

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### **Medical Conditions Aggravated by Exposure**

Tetramethylthiuram disulfide is classified as a mutagen and reproductive toxicant. However, this component is bound in the polymer portion of the adhesive after manufacturing. After installation of this adhesive, this component is ultimately consumed in the curing reaction. Therefore, this product is not classified as a mutagen or reproductive toxicant.

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## Section 12 - ECOLOGICAL INFORMATION

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### **Ecotoxicity**

Avoid release to the environment.

### **Component Analysis - Aquatic Toxicity**

<b>Polyphenol antioxidant</b>	Trade Secret
Fish:	LC50 96 h Oncorhynchus mykiss >0.2 mg/L [semi-static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata >0.2 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.2 mg/L IUCLID
<b>Sulfur</b>	7704-34-9
Fish:	LC50 96 h Brachydanio rerio 866 mg/L [static]; LC50 96 h Lepomis macrochirus <14 mg/L [static];

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	LC50 96 h Oncorhynchus mykiss >180 mg/L [static]
<b>Tetramethylthiuram disulfide</b>	137-26-8
Fish:	LC50 96 h Cyprinus carpio 0.0003 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 0.13 mg/L; LC50 96 h Lepomis macrochirus 0.034 - 0.05005 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.048 mg/L; LC50 96 h Oncorhynchus mykiss 0.00024 - 0.00028 mg/L [semi-static]; LC50 96 h Oncorhynchus mykiss 0.09 - 0.17 mg/L [static]; LC50 96 h Pimephales promelas 0.27 mg/L; LC50 96 h Pimephales promelas 0.0491 - 0.0611 nM [semi-static]; LC50 96 h Poecilia reticulata 0.22 - 0.33 mg/L [semi-static]
Algae:	EC50 96 h Desmodesmus subspicatus <0.1 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 0.21 mg/L IUCLID
<b>Toluene</b>	108-88-3
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
<b>Acetone</b>	67-64-1
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L

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Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
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### **Persistence and Degradability**

No information available for the product.

### **Bioaccumulative Potential**

No information available for the product.

### **Mobility**

No information available for the product.

### **Other Toxicity**

No additional information available.

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## Section 13 - DISPOSAL CONSIDERATIONS

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### **Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Section 14 - TRANSPORT INFORMATION

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### **US DOT Information:**

**Shipping Name:**Adhesives

**Hazard Class:** 3

**UN/NA #:** UN1133

**Packing Group:** II

**Required Label(s):** 3

**Additional information:** Special Provisions (172.102): 149, B52, IB2, T4, TP1, TP8

### **IATA Information:**

**UN#:** UN1133

### **IMDG Information:**

**UN#:** UN1133

### **TDG Information:**

**UN#:** UN1133

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### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Tetramethylthiuram disulfide	137-26-8
SARA 313:	1 % de minimis concentration
CERCLA:	10 lb final RQ; 4.54 kg final RQ
Toluene	108-88-3
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ; 454 kg final RQ
Acetone	67-64-1
CERCLA:	5000 lb final RQ; 2270 kg final RQ

#### SARA Section 311/312 (40 CFR 370 Subparts B and C)

**Acute Health:** Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactivity:** No

#### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Sulfur	7704-34-9	Yes	Yes	No	Yes	Yes
Tetramethylthiuram disulfide	137-26-8	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes

#### The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Toluene	108-88-3
Repro/Dev. Tox	developmental toxicity , 1/1/1991

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### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on SDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Tetramethylthiuram disulfide	137-26-8
	1 %
Toluene	108-88-3
	1 %
Acetone	67-64-1
	1 %

### Component Analysis - Inventory

Acrylonitrile-butadiene rubber (Mixture)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Polyphenol antioxidant (Trade Secret)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Sulfur (7704-34-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Tetramethylthiuram disulfide (137-26-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

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Toluene (108-88-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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### Section 16 - OTHER INFORMATION

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#### HMIS Rating

Health: 2\* Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

#### NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Summary of Changes

Revision Date: January 2, 2019

Revision Note: General Update

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™



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- ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### Other Information

#### Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use