

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

<b>Name of the substance</b>	Resin acids and Rosin acids, fumarated, esters with pentaerythritol
<b>Trade name of the substance</b>	SYLVALITE™ RE 104
<b>Identification Number</b>	94581-15-4
<b>Registration number</b>	01-2119485895-17-0002
<b>Synonyms</b>	None.
<b>Product code</b>	2001015-2001019
<b>Date of first issue</b>	25-November-2010
<b>Version number</b>	01
<b>Revision date</b>	-
<b>Supersedes date</b>	-

### Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys).
<b>Uses advised against</b>	None known.

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

#### Supplier

<b>Company name</b>	Arizona Chemical AB
<b>Address</b>	Mässvägen 15 SE-820 22 SANDARNE, SWEDEN
<b>Phone</b>	+ 46 270 625 00
<b>e-mail</b>	regulatory.eu@azchem.com
<b>Emergency telephone number</b>	+44 1865 407 333

<b>SDS number</b>	Not available.
<b>Reference number</b>	Not available.

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

<b>Classification</b>	Xi;R36, R43
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### Classification according to Regulation (EC) No 1272/2008 as amended

<b>Health hazards</b>		
Serious eye damage/eye irritation	Category 2	Causes serious eye irritation.
Skin sensitisation	Category 1	May cause an allergic skin reaction.

### Hazard summary

<b>Physical hazards</b>	Not classified for physical hazards.
<b>Health hazards</b>	Irritating to eyes. May cause sensitization by skin contact.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Not applicable.
<b>Main symptoms</b>	Sensitisation. Irritant effects.

## Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Resin acids and Rosin acids, fumarated, esters with pentaerythritol

**Identification Number** 94581-15-4



**Signal word** Warning

**Hazard statements** May cause an allergic skin reaction. Causes serious eye irritation.

### Precautionary statements

**Prevention** Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Storage** Not available.

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

**Supplemental label information** Not available.

**Other hazards** Not assigned.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Resin acids and Rosin acids, fumarated, esters with pentaerythritol	100	94581-15-4 305-514-1	01-2119485895-17-0002	-	
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**Classification:** **DSD:** Xi;R36, R43

**CLP:** Skin Sens. 1;H317, Eye Irrit. 2;H319

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

## SECTION 4: FIRST AID MEASURES

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### Description of first aid measures

**Inhalation** Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

**Skin contact** Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with plenty of water. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

**Ingestion** Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.

**Most important symptoms and effects, both acute and delayed** May cause allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed** Keep person under observation.

## SECTION 5: FIREFIGHTING MEASURES

**General fire hazards** The product is not flammable.

## Extinguishing media

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or alcohol resistant foam.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture** By heating and fire, harmful vapours/gases may be formed.

## Advice for firefighters

**Special protective equipment for firefighters** Wear suitable protective equipment.

**Special firefighting procedures** In the event of fire, cool tanks with water spray. Water runoff can cause environmental damage.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Do not touch or walk through spilled material. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.

**For emergency responders** See Section 8 for personal protective equipment.

**Environmental precautions** Prevent entry into drains. Do not contaminate water.

**Methods and material for containment and cleaning up** Collect spillage. Avoid dust formation. Following product recovery, flush area with water. Prevent product from entering drains. For waste disposal, see section 13.

**Reference to other sections** See Section 8 for personal protective equipment. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling** Avoid contact with skin. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities** Keep container tightly closed.

**Specific end use(s)** Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Occupational exposure limits** No exposure limits noted for the ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

**DNEL** Not available.

**PNEC** Not available.

### Exposure controls

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

### Individual protection measures, such as personal protective equipment

**General information** Not available.

**Eye/face protection** Safety glasses.

#### Skin protection

- **Hand protection** Wear protective gloves.

- **Other** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection** In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

**Thermal hazards** Not available.

**Hygiene measures** Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls** Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Prills.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Colour</b>	Amber
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	103 - 107 °C (217.4 - 224.6 °F)
<b>Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>Flash point</b>	> 200 °C (> 392 °F)
<b>Auto-ignition temperature</b>	> 200 °C (> 392 °F)
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	< 0.001 mm Hg (20°C)
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	1.08 (25°C)
<b>Solubility</b>	< 0.01 %
<b>Partition coefficient (n-octanol/water)</b>	3.41
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	Not available.
<b>VOC (Weight %)</b>	Not available.
<b>Percent volatile</b>	Not available.
<b>Other information</b>	No relevant additional information available.

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Avoid contact with oxidisers or reducing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Heat, sparks, flames.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May irritate and cause malaise.

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Causes eye irritation.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	May cause discomfort if swallowed.

<b>Product</b>	<b>Test results</b>
Resin acids and Rosin acids, fumarated, esters with pentaerythritol (94581-15-4)	Acute Oral LD50 Rat: > 5000 mg/kg Acute Oral LD50 Rat: > 2000 mg/kg
<b>Skin corrosion/irritation</b>	Direct contact may irritate.
<b>Serious eye damage/eye irritation</b>	Irritating and may cause redness and pain.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

<b>Product</b>	<b>Test results</b>
Resin acids and Rosin acids, fumarated, esters with pentaerythritol (94581-15-4)	EC50 Daphnia: > 100 mg/kg 48.00 hours EC50 Daphnia: 100 mg/l 48.00 hours NOEL Daphnia: 56 mg/l 48.00 hours
<b>Persistence and degradability</b>	46% after 28 days. In activated sludge. Not readily biodegradable. OECD 301B.
<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Mobility</b>	The product is insoluble in water.
<b>Environmental fate - Partition coefficient</b>	Log Pow = 3.41
<b>Mobility in soil</b>	Not established.
<b>Results of PBT and vPvB assessment</b>	Not classified. Not classified. Not classified.
<b>Other adverse effects</b>	Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Residual waste</b>	Avoid discharge into drains, water courses or onto the ground. Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

**SECTION 14: TRANSPORT INFORMATION**

**ADR**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**ADN**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

**SECTION 15: REGULATORY INFORMATION**

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

**EU Regulations**

**Regulation (EC) No. 850/2004 on persistent organic pollutants**

Not regulated

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer**

Not regulated.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals**

Not regulated.

**Regulation (EC) No. 1907/2006 Annex XIV Substance subject to authorisation**

Not regulated.

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use**

Not regulated.

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.**

Not regulated.

**Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)**

Not regulated.

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.**

Always applicable.

**Other regulations**

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

**National regulations**

Not available.

**Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: OTHER INFORMATION**

**List of abbreviations**

Not available.

**References**

Not available.

**Information on evaluation method leading to the classification of mixture**

Not available.

<b>Full text of any statements or R-phrases and H-phrases under Sections 2 to 15</b>	R36 Irritating to eyes. R43 May cause sensitization by skin contact.  H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.
<b>Revision information</b>	Not available.
<b>Training information</b>	Not available.
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Issue date</b>	25-November-2010
<b>Revision date</b>	25-November-2010
<b>Print date</b>	25-November-2010