

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

Product identifier

Name of the substance	Resin acids and Rosin acids, fumarated, esters with pentaerythritol
Trade name of the substance	SYLVATAC™ RE 101RM F
Identification Number	94581-15-4
Registration number	01-2119485895-17-0000
Synonyms	None.
Product code	2000897, 2001198, 2001199
Date of first issue	25-November-2010
Version number	01
Revision date	-
Supersedes date	-

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

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

Details of the supplier of the safety data sheet

Supplier

Company name	Arizona Chemical OY
Address	Nuottasaarentie 17 FIN-90400 Oulu, Finland
Phone	+358 40 341 3300
e-mail	regulatory.eu@azchem.com
Emergency telephone number	+44 1865 407 333
SDS number	5517E
Reference number	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

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

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

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Irritating to eyes. May cause sensitization by skin contact.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Not applicable.
Main symptoms	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
Resin acids and Rosin acids, fumarated, esters with pentaerythritol	100	94581-15-4 305-514-1	01-2119485895-17-0000	-	

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, CO₂, 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

Appearance	Prills.
Physical state	Solid.
Form	Solid.
Colour	Amber
Odour	Mild.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	100 - 106 °C (212 - 222.8 °F)
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	> 260 °C (> 500 °F)
Auto-ignition temperature	> 200 °C (> 392 °F)
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidising properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapour pressure	< 0.001 mm Hg (20°C)
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	1.07 (25°C)
Solubility	< 0.1 %
Partition coefficient (n-octanol/water)	3.41
Decomposition temperature	Not available.
Bulk density	Not applicable.
Pour point	Not applicable.
Viscosity	Not available.
VOC (Weight %)	Not available.
Percent volatile	Not available.
Other information	No relevant additional information available.

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

Product	Test results
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
Skin corrosion/irritation	Direct contact may irritate.
Serious eye damage/eye irritation	Irritating and may cause redness and pain.
Respiratory sensitisation	Not available.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not classified.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product	Test results
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
Persistence and degradability	46% after 28 days. In activated sludge. Not readily biodegradable. OECD 301B.
Bioaccumulative potential	No data available on bioaccumulation.
Mobility	The product is insoluble in water.
Environmental fate - Partition coefficient	Log Pow = 3.41
Mobility in soil	Not established.
Results of PBT and vPvB assessment	Not classified. Not classified. Not classified.
Other adverse effects	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Residual waste	Avoid discharge into drains, water courses or onto the ground. Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	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.

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