

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<b>Name of the substance</b>	Rosin, fumarated, polymer with glycerol
<b>Trade name of the substance</b>	SYLVACOTE™ 4985
<b>Identification number</b>	CAS No.65997-10-6 (Index number)
<b>Registration number</b>	-
<b>Synonyms</b>	None.
<b>SDS number</b>	14211
<b>Product code</b>	200000001978
<b>Issue date</b>	12-April-2016
<b>Version number</b>	4,0
<b>Revision date</b>	01-April-2022
<b>Supersedes date</b>	06-December-2018

### 1.2. 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.

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

<b>Company name</b>	Kraton Chemical B.V.
<b>Address</b>	Transistorstraat 16, 1322 CE Almere, The Netherlands
<b>Phone</b>	+31 36 546 2800
<b>Email address</b>	regulatory.eu@kraton.com

### 1.4. Emergency telephone number

EU NCEC +44 1865 407 333

<b>General in EU</b>	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Austria National Poisons Information Centre</b>	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Belgium National Poisons Control Center</b>	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Bulgaria National Toxicological Information Centre</b>	+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Czech Republic National Poisons Information Centre</b>	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Denmark National Poisons Control Center</b>	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Estonia National Poisons Information Centre</b>	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
<b>Finland National Poison Information Center</b>	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>France National Poisons Control Center</b>	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Hungary National Emergency Phone Number</b>	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Lithuania Neatidėliotina informacija apsinuodijus</b>	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

<b>Netherlands National Poisons Information Center (NVIC)</b>	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Romania Biroul RSI si Informare Toxicologica</b>	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
<b>Slovakia National Toxicological Information Centre</b>	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Sweden National Poison Information Center</b>	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## SECTION 2: Hazards identification

### 2.1. 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 Regulation (EC) No 1272/2008 as amended

##### Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 4	H413 - May cause long lasting harmful effects to aquatic life.
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**Hazard summary** May form explosible dust-air mixture if dispersed. Causes serious eye irritation. May cause an allergic skin reaction. Dangerous for the environment if discharged into watercourses.

### 2.2. Label elements

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

**Contains:** Rosin, fumarated, polymer with glycerol

##### Hazard pictograms



**Signal word** Warning

##### Hazard statements

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H413	May cause long lasting harmful effects to aquatic life.

#### Precautionary statements

##### Prevention

P261	Avoid breathing dust/fume.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** Not available.

**Disposal** Not available.

**Supplemental label information** None.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. May form explosible dust-air mixture if dispersed.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Rosin, fumarated, polymer with glycerol	99-100	65997-10-6	-	-	

**Classification:** Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 4;H413

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).  
M: M-factor  
PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all H-statements is displayed in section 16.

## 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.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.  
**Eye contact** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  
**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** May form combustible dust concentrations in air.

### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Apply extinguishing media carefully to avoid creating airborne dust.

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

**5.2. Special hazards arising from the substance or mixture** High concentration of airborne dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapour may cause flash fire. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** In case of fire and/or explosion do not breathe fumes. Wear suitable protective equipment. Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Wear appropriate personal protective equipment.

**For emergency responders** Keep unnecessary personnel away.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

### 6.4. Reference to other sections

Not available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Minimise dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Store at ambient temperature and atmospheric pressure.

### 7.3. Specific end use(s)

Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Belgium. Exposure Limit Values

Additional components	Type	Value	Form
Dust	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Additional components	Type	Value	Form
Dust	TWA	3,5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

##### Czech Republic. OELs. Government Decree 361

Additional components	Type	Value	Form
Dust	TWA	5 mg/m <sup>3</sup>	Dust.

##### Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Additional components	Type	Value	Form
Dust	TWA	5 mg/m <sup>3</sup>	Fine dust, respiratory fraction
		1 mg/m <sup>3</sup>	Total dust.

##### Finland

Additional components	Type	Value
Dust	TWA	5 mg/m <sup>3</sup>
		10 mg/m <sup>3</sup>

##### France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Additional components	Type	Value	Form
Dust	VME	5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Regulatory status:** Regulatory binding (VRC)

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**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	4 mg/m <sup>3</sup>	Inhalable dust.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	AGW	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	5 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.

**Ireland. Occupational Exposure Limits**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total inhalable dust.

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	5 mg/m <sup>3</sup>	Dust.

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Netherlands**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA (MAC)	5 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	10 mg/m <sup>3</sup>	Total
		10 mg/m <sup>3</sup>	Dust.

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.

**Spain. Occupational Exposure Limits**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	5 mg/m <sup>3</sup>	Inhalable dust.
		2,5 mg/m <sup>3</sup>	Respirable dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	3 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Dust	TWA	4 mg/m <sup>3</sup>	Respirable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

<b>Additional components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
		10 mg/m <sup>3</sup>	Inhalable dust.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).		
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.		
<b>Derived no effect levels (DNELs)</b>	Not available.		
<b>Predicted no effect concentrations (PNECs)</b>	Not available.		
<b>8.2. Exposure controls</b>			
<b>Appropriate engineering controls</b>	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.		
<b>Individual protection measures, such as personal protective equipment</b>			
<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
<b>Eye/face protection</b>	Face shield is recommended. Wear safety glasses with side shields (or goggles).		
<b>Skin protection</b>			
<b>- Hand protection</b>	Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Wear suitable gloves tested to EN374. Recommended gloves include rubber, neoprene, nitrile or viton. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness should be typically greater than 0.35 mm. This recommendation is advisory only. It may not be appropriate for all workplaces. It should not be construed as offering an approval for any specific use scenario. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes.		
<b>- Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.		
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Eye wash fountain and emergency showers are recommended.		
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.		

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Solid.
<b>Form</b>	Pastilles or Pellets. or Flakes
<b>Colour</b>	Amber.
<b>Odour</b>	Mild.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.

## Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Flash point 273,9 °C (525,0 °F) Cleveland open cup Data is for similar product.

Auto-ignition temperature 410 °C (770 °F) Data is for similar product.

Decomposition temperature Not available.

pH Not available.

## Solubility(ies)

Solubility (water) < 0,1 % at 25°C estimated

Vapour pressure < 0,001 mm Hg at 20°C estimated

Vapour density Not available.

Relative density 1,14 at 25°C/25°C; (water=1) estimated

Particle characteristics Not available.

## Other safety characteristics

Chemical family Modified Rosin Ester

Density 1140,00 kg/m3 at 20°C estimated

Evaporation rate 0 (n-BuAc=1) estimated

Percent volatile 0 % by weight estimated

Softening point 100 - 110 °C (212 - 230 °F) Ring & Ball estimated

VOC 0 % estimated

Weighted solids 100 %

## SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Strong oxidising agents. Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimise dust generation and accumulation.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

## SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Rosin, fumarated, polymer with glycerol Irritation Corrosion - Eye, Data is for similar product.  
Result: Positive  
Species: New Zealand white rabbit  
Organ: Eye  
Notes: OECD 405

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

### 11.1. Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

Components	Species	Test Results
Rosin, fumarated, polymer with glycerol (CAS 65997-10-6)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg Data is for similar product. > 2000 mg/kg Data is for similar product.

Components	Species	Test Results
NOAEL	Wistar rat	300 mg/kg/day, 8 weeks Data is for similar product.;Developmental
NOEL	Wistar rat	1000 mg/kg/day, 8 weeks Data is for similar product.;Reproductive
* Estimates for product may be based on additional component data not shown.		
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Corrosivity</b>	Rosin, fumarated, polymer with glycerol	4 Irritation Corrosion - Skin, Data is for similar product.; No skin irritation. Result: Negative Species: New Zealand white rabbit Organ: Skin Test Duration: 72 hr Observation Period: 72 hr Notes: OECD 404
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Eye contact</b>	Rosin, fumarated, polymer with glycerol	Irritation Corrosion - Eye, Data is for similar product. Result: Positive Species: New Zealand white rabbit Organ: Eye Notes: OECD 405
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.	
<b>Skin sensitisation</b>	May cause an allergic skin reaction.	
<b>Skin Sensitisation</b>	Rosin, fumarated, polymer with glycerol	50 % w/w Local Lymph Node Assay - Lowest Concentration Producing Reaction, SI=4,24; May cause sensitization by skin contact.; Data is for similar product. Result: Positive Species: Mouse Notes: OECD 429
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are carcinogenic.	
<b>Mutagenicity</b>	Rosin, fumarated, polymer with glycerol	Germ Cell Mutagenicity: Ames Result: Negative Species: Salmonella typhimurium Notes: OECD 471 Germ Cell Mutagenicity: Chromosome Abberation Result: Negative Species: Human Notes: OECD 473 In Vitro Mammalian Cell Gene Mutation Test, No data available to indicate product or any components present at greater than 0,1% are mutagenic or genotoxic.; Data is for a similar product. Result: Negative Species: Mouse Notes: OECD 476
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>	Not listed.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Mixture versus substance information</b>	No information available.	



## 11.2. Information on other hazards

<b>Endocrine disrupting properties</b>	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** May cause long lasting harmful effects to aquatic life.

Components	Species	Test Results
Rosin, fumarated, polymer with glycerol (CAS 65997-10-6)	EC50	Activated sewage sludge > 1000 mg/l, 3 hr
	NOEC	Activated sewage sludge > 1000 mg/l, 3 hr
	<b>Aquatic</b>	
	Crustacea	EC50 Water flea (Daphnia magna) > 100 mg/l, 48 hr Data is for similar product.
	NOEC Water flea (Daphnia magna) > 56 mg/l, 48 hr Data is for similar product.	

\* Estimates for product may be based on additional component data not shown.

**12.2. Persistence and degradability** The product is not readily biodegradable.

### Biodegradability

#### Percent Degradation (Aerobic Biodegradation)

Rosin, fumarated, polymer with glycerol 46 % OECD 301B, Data is for similar product.  
Result: Not readily biodegradable.

## 12.3. Bioaccumulative potential

### Partition coefficient

#### n-octanol/water (log Kow)

SYLVACOTE™ 4985 3,41, Data is for similar product. Estimated

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. 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. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

**14.1. UN number** Not available.

**14.2. UN proper shipping name** Not available.

### 14.3. Transport hazard class(es)

**Class** Not available.

**Subsidiary risk** -

**Hazard No. (ADR)** Not available.

**Tunnel restriction code** Not available.

**14.4. Packing group** Not available.

14.5. Environmental hazards No.  
14.6. Special precautions Not available.  
for user

#### RID

14.1. UN number Not available.  
14.2. UN proper shipping Not available.  
name  
14.3. Transport hazard class(es)  
Class Not available.  
Subsidiary risk -  
14.4. Packing group Not available.  
14.5. Environmental hazards No.  
14.6. Special precautions Not available.  
for user

#### ADN

14.1. UN number Not available.  
14.2. UN proper shipping Not available.  
name  
14.3. Transport hazard class(es)  
Class Not available.  
Subsidiary risk -  
14.4. Packing group Not available.  
14.5. Environmental hazards No.  
14.6. Special precautions Not available.  
for user

#### IATA

14.1. UN number Not available.  
14.2. UN proper shipping Not available.  
name  
14.3. Transport hazard class(es)  
Class Not available.  
Subsidiary risk -  
14.4. Packing group Not available.  
14.5. Environmental hazards No.  
14.6. Special precautions Not available.  
for user

#### IMDG

14.1. UN number Not available.  
14.2. UN proper shipping Not available.  
name  
14.3. Transport hazard class(es)  
Class Not available.  
Subsidiary risk -  
14.4. Packing group Not available.  
14.5. Environmental hazards  
Marine pollutant No.  
EmS Not available.  
14.6. Special precautions Not available.  
for user

14.7. Transport in bulk Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
according to Annex II of  
MARPOL 73/78 and the IBC  
Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

None known.

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

Not listed.

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

Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### **Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### **National regulations**

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

#### **Water hazard class**

**AwSV**

WGK1

### **SECTION 16: Other information**

#### **List of abbreviations**

Not available.

#### **References**

Not available.

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

Not applicable.

#### **Full text of any H-statements not written out in full under Sections 2 to 15**

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H413 May cause long lasting harmful effects to aquatic life.

#### **Revision information**

Product and Company Identification: Product and Company Identification  
SECTION 2: Hazards identification: 2,3. Other hazards  
Composition / Information on Ingredients: Disclosure Overrides  
SECTION 7: Handling and storage: Safe handling advice  
SECTION 7: Handling and storage: Safe handling advice (and precautions)  
SECTION 8: Exposure controls/personal protection: Environmental exposure controls  
Physical & Chemical Properties: Multiple Properties  
SECTION 11: Toxicological information: Endocrine disrupting properties  
SECTION 12: Ecological information: 12,6. Endocrine disrupting properties  
SECTION 12: Ecological information: 12,5. Results of PBT and vPvB assessment  
SECTION 16: Other information: Disclaimer

#### **Training information**

Follow training instructions when handling this material.

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