



SAFETY DATA SHEET

According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH)

Trade name : ROSIN
Revision date : 21/11/2022 Version : 2.0
Printing date : 21/11/2022 Page : 1 of 11

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

1.1. Product identifier

Trade name : ROSIN
Chemical name : ROSIN
CAS number : 8050-09-7
EC number : 232-475-7
Index number : 650-015-00-7
REACH registration number : 01-2119480418-32-0046

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

Identified uses : Raw material for the manufacture of fragrances, paint strippers, dyes, emulsifiers, adhesives, paper, medicine, ink, material for sport...
See the exposure scenarios attached to this SDS.
Uses advised against : Uses other than those previously collected as 'Identified uses'.

1.3. Details of the supplier of the safety data sheet

Supplier : RESINAS ALFONSO CRIADO MARTÍN
Address : Camino de los Molinos, 33, 40293 Zarzuela del Pinar (Segovia) - SPAIN
Telephone number : +34 659981801
E-mail address for a competent person responsible for the safety data sheet : colofoniacmad@yahoo.es

1.4. Emergency telephone number

Availability : +34 659981801
Only available during office hours.

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 [CLP]

Hazard Classes/categories	Hazard statement(s) (H)
Skin Sens. 1	H317: May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008 [CLP]

Signal Word and Pictograms	Hazard Statements (H)	Precautionary Statements (P)*
<p>Warning</p>  <p>GHS07</p>	H317: May cause an allergic skin reaction.	P261 P272 P280 P302 + P352 P333 + P313 P362 + P364 P501

* Full text of the hazard statements (H) and the precautionary statements (P): see the SECTION 16.



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2.3. Other hazards

Compliance with PBT/vPvB criteria : Rosin is not a PBT/ vPvB substance.

Other information : The substance is not included in the list established pursuant to Article 59(1) for its endocrine-disrupting properties, or substances that have been identified with endocrine-disrupting properties according to the criteria established in Delegated Regulation (EU) 2017 /2100 of the Commission or in Regulation (EU) 2018/605 of the Commission.

SECTION 3: Composition/information on ingredients

3.1. Substances

CAS number	EC number	Index number	REACH registration number	Chemical name	Content	SCL and M factors
8050-09-7	232-475-7	650-015-00-7	01-2119480418-32-0046	Rosin	>80%	-

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes : Consult a doctor/physician.

Inhalation : Move to fresh air. Rinse mouth and nose with water and get medical advice/attention if you feel unwell. Keep calm.

Skin : Wash with plenty of water and soap. Apply sunscreen. Take off contaminated clothing and wash it before reuse. Consult a doctor if symptoms persist.

Eyes : If in eyes, rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist immediately.

Ingestion : Rinse mouth with water. Seek medical advice immediately. Keep at rest. Do not induce vomiting.

Protection of the person providing first aid : Use of protective clothing.

4.2. Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed : Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable extinguishing media : For safety reasons, do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Emits toxic gases in case of fire.

Other specific hazards : No data available.

5.3. Advice for firefighters

Equipment and protective actions : High temperatures can lead to high pressures inside closed containers. Avoid breathing fumes or vapors generated. Use suitable respiratory equipment. Do not allow the spillage of the fire extinguishing into drain or water courses.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : AVOID INHALATION OF VAPORS.
 For emergency responders : Eliminate sources of ignition and ventilate the area. USE A PROPER BREATHING MASK.

6.2. Environmental precautions

: Keep spills out of municipal sewers and running water.

6.3. Methods and material for containment and cleaning up

Containment : Contain and absorb spills with inert, inorganic, non-combustible material such as sand or earth and transfer to a container for disposal according to local regulations.

Cleaning up : Clean the surface thoroughly to remove residual contamination. Avoid open flames or other ignition sources. Ventilate the local area and wash once removed completely. Dispose of in accordance with applicable laws and regulations.

6.4. Reference to other sections

: See sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Technical measures : Keep only in the original container.

Protection and prevention measures : Avoid contact with eyes, skin, and clothing. Use protective clothing and wear safety glasses. Do not handle material near food or drinking water. No Smoking. Observe the rules of hygiene and safety at work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store material away from sources of ignition (eg: hot surfaces, sparks, flames and static discharges).

Packaging materials : Store in a glass, suitable plastic, aluminum, or lacquered container.

Requirements containers and storage areas : Keep away from sources of ignition. Keep away from incompatible substances (see Incompatibility section). Prevent access to unauthorized persons. Do not store this material near food or drinking water. Do not open pressure containers.

Further information for storage : Store in airtight containers in a cool, dry, ventilated area.

7.3. Specific end use(s)

: See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National limit values of the components : No information available.



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DNELs and PNECs

DNELs								
Exposure route	Workers				General population			
	Local effects Acute/short term exposure	Systemic effects Acute/short term exposure	Local effects Long term exposure	Systemic effects Long term exposure	Local effects Acute/short term exposure	Systemic effects Acute/short term exposure	Local effects Long term exposure	Systemic effects Long term exposure
Oral	-	-	-	-	-	-	-	10 mg/kg day
Inhalation	-	-	-	117 mg/m ³	-	-	-	35 mg/m ³
Dermal	-	-	-	17 mg/kg day	-	-	-	10 mg/kg

PNECs	
Objective of environmental protection	PNEC value
Freshwater	0.0016 mg/L
Aqua (intermittent releases)	0.016 mg/L
Marine water	0.00016 mg/L
STP	10 mg/L
Sediments (freshwater)	0.007 mg/L
Sediments (marine water)	0.0007 mg/L
Soil	0.00045 mg/Kg soil

8.2. Exposure controls

Appropriate engineering controls

: Ensure that there is safety shower and eyewash with clean water near the discharge point. Ensure adequate ventilation.
 Avoid contact with skin, eyes and clothing.
 Handle in accordance with good industrial hygiene practices.
 Do not inhale aerosols.
 Remove and wash contaminated clothing before reuse.
 When handling, do not eat, drink or smoke.
 Wash hands immediately after handling.
 Remove any contamination on the skin with soap and water. Apply subsequent protection cream.

Individual protection measures, such as personal protective equipment

Eye/ face protection

: Use adequate eye and face protection.

Skin protection

: Use appropriate protective clothing.

Hand protection

: Protective gloves must comply with EN 374 standard. The gloves should be replaced immediately at any sign of wear or tear. Observe the lifetime of the material.

Respiratory protection

: No information available.

Environmental exposure controls

: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Vitreous solid (GARDNER SCALE 4-6)

Colour

: No data available



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Odour	: Pine
Melting point/freezing point	: 66.5-93.4°C
Boiling point or initial boiling point and boiling range	: 265°C
Flammability	: Non-flammable
Lower and upper explosion limit	: No data available
Flash point	: 208.1°C
Auto-ignition temperature	: 335.5°C to >400°C
Decomposition temperature	: No data available
pH	: No data available
Acidity index	: 155-165 mg KOH/g
Kinematic viscosity	: 350-450 CSP (120°C)
Solubility	: 0.9 mg/L (20°C)
Partition coefficient n-octanol/water (log value)	: 0.74 to 6.5 (components)
Vapour pressure	: 4.8-10-8 mbar – 1.41 mbar (components)
Density and/or relative density	: 1.034g/cm3(20°C)
Relative vapour density	: No data available
Particle characteristics	: No data available
Dropping Point	: 70-75°C
Explosive properties	: Non explosive
Oxidising properties	: No comburent
9.2. Other information	
Information with regard to physical hazard classes	: No data available
Other safety characteristics	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity	: Nonreactive.
10.2. Chemical stability	: Stable under normal conditions.
10.3. Possibility of hazardous reactions	: Not expected.
10.4. Conditions to avoid	: Excessive heat, flames or other sources of ignition.
10.5. Incompatible materials	: Not determined.
10.6. Hazardous decomposition products	: During combustion may form carbon monoxide and unidentified organic components.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Hazard/Effect	Method	Species	Route of administration	Effective dose	Exposure period	Results
Acute toxicity	Inhalation	Not classified according to Section 8.5 of Annex VIII of REACH. The route of exposure by inhalation is not a primary route of exposure.				
	Oral	Rat	Corn oil	LD50: 2.8 g/Kg	-	-
	Oral	Guinea pig		LD50: 1-2 g/Kg	-	-
Skin corrosion/irritation	-	Rat	DMSO	LD50 > 2000mg/Kg	-	-
		White mouse		Noncorrosive	-	-
Serious eye damage/irritation	Does not cause injuries or serious eye irritation.					
Respiratory or skin sensitization	May cause an allergic skin reaction.					



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Germ cell mutagenicity	Non mutagenic
Carcinogenicity	Not classified because there is no data available.
Reproductive toxicity	No effects have been observed in the conducted studies.
STOT-single exposure	Not classified because there is no data available.
STOT-repeated exposure	Not classified because there is no data available.
Aspiration hazard	Not classified because there is no data available.

11.2. Information on other hazards

Endocrine disrupting properties : The substance is not included in the list established pursuant to Article 59(1) for its endocrine-disrupting properties, or substances that have been identified with endocrine-disrupting properties according to the criteria established in Delegated Regulation (EU) 2017 /2100 of the Commission or in Regulation (EU) 2018/605 of the Commission.

Other information : No data available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity (short term)	Method	Species	Effective dose	Exposure period	Results
Fishes	-	Danio Rerio	-	96h	LL50 < 10 mg/L LC50: 60.3 mg/L
Crustaceans	-	Daphnia Magna	-	48h	EL50: 911mg/L NOELR: 750mg/L
Algae/Other aquatic plants	-	Pseudokirchnerella subcapitata	-	48h	EL50 > 1000 mg/L
Other organisms	-	Domestic wastewater sludge.	-	3h	EC50>10000mg/L

Cronic toxicity (long term)	Method	Species	Effective dose	Exposure period	Results
Fishes	-	-	-	-	-
Crustaceans	-	-	-	-	-
Algae/Other aquatic plants	No observed effects, EL50 > 1000mg/L				

12.2. Persistence and degradability

Abiotic degradability : No information available.

Physico-chemical removability : No information available.

Biodegradation : No information available.

12.3. Bioaccumulative potential

n-octanol/water partition coefficient (log Kow) : Log Kow: No information available.
Koc: 11650



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Bioconcentration factor (BCF)	: 56-7748 L/Kg
12.4. Mobility in soil	
Known / predictable distribution to environmental compartments	: No information available.
Surface tension	: 78.0 mN/m
12.5. Results of PBT and vPvB assessment	: Rosin is not a PBT/ vPvB substance.
12.6. Endocrine disrupting properties	: The substance is not included in the list established pursuant to Article 59(1) for its endocrine-disrupting properties, or substances that have been identified with endocrine-disrupting properties according to the criteria established in Delegated Regulation (EU) 2017 /2100 of the Commission or in Regulation (EU) 2018/605 of the Commission.
12.7. Other adverse effects	: See also sections 6, 7, 13 and 15. Avoid contamination of soil, groundwater and surface water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods for the disposal of substance / mixture waste	: Dispose of in accordance with local and national regulations.
Appropriate methods for the disposal of contaminated containers	: DO NOT dispose of with household waste. Dispose of container to a licensed hazardous-waste contractor.
	Decontamination / cleaning: Rinse with water. Let it drain well. Neutralize water pollution cleaning before disposal. (pH 5.5 to 8.5).
	Destruction / Disposal: decontamination reuse or recycling.

SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID, AND/ADNR, IMDG, ICAO/IATA : The substance is not classified as dangerous for transport.

14.2. UN proper shipping name

ADR/RID, AND/ADNR, IMDG, ICAO/IATA : The substance is not classified as dangerous for transport.

14.3. Transport hazard class(es)

ADR/RID, AND/ADNR, IMDG, ICAO/IATA : The substance is not classified as dangerous for transport.

14.4. Packing group

ADR/RID, AND/ADNR, IMDG, ICAO/IATA : The substance is not classified as dangerous for transport.

14.5. Environmental hazards

IMDG : Not known.

14.6. Special precautions for user

IMDG : Make sure that the people who transport the product know what to do in case of an accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.

14.7. Maritime transport in bulk according to IMO instruments

: The substance is not classified as dangerous for transport.

14.8. Additional information

ADR/RID

Label : Not applicable.

Class code : Not applicable.



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SECTION 15: Regulatory information

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

EU Regulations

REACH Use Authorizations

: The substance does not appear in the Annex XIV of REACH nor in the current SVHC candidate list.

REACH use restrictions

: No restrictions according to annex XVII of REACH.

National regulations

: No information available.

15.2. Chemical Safety Assessment

: A chemical safety assessment is carried out for the substance Rosin.

SECTION 16: Other information

Changes to previous version

: The SDS format has been adapted to the requirements of EU Regulation 2020/878, amending Annex II of REACH.
All data from REACH registration have been added with their respective exposure scenarios.

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
OCDE	Organisation for Economic Co-operation and Development
QSAR	Quantitative Structure Activity Relationship
CSR	Chemical safety report
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very persistent and very accumulative
DNEL	Derived no-effect level
PNEC	Predicted no effect concentration
EC50	Median effective concentration
NOEC	No Observed Effect Concentration
LOEC	Lowest Observed Effect Concentration
LC50	Letal concentration at 50%
DL50	Letal dose at 50%
NOEL	No observed effect level
ErC50	Median effective concentration (growth rate)
EyC50	Median effective concentration (yield)
NOErC	No observed effect concentration (growth rate)
NOEyC	No observed effect concentration (yield)
LOErC	Lowest-observed-effect concentration (growth rate)
LOEyC	Lowest-observed-effect concentration (yield)

References and data sources

: REACH registration dossier, chemical safety report (CSR) of the substance and database of the European Chemicals Agency (ECHA) of registered substances.

Recommendations for training workers

: Maintenance personnel and production plant has received information and training on safety instructions in plant and equipment.

Full text of hazard statements (H) and precautionary statements (P)

H phrases:

H317: May cause an allergic skin reaction.



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P phrases:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse
P501: Dispose of contents/container in accordance with local, regional, national and international regulations.

Additional information

Human exposure assessment:

This substance is classified as having a potential to induce and/or elicit skin sensitisation (H317), however the available data do not provide quantitative dose-response information. Qualitative Chemical Safety Assessment (CSA) is appropriate in these circumstances, and aims to reduce/avoid contact when there is no basis for setting a DNEL or DMEL through the implementation of risk management measures (RMMs) and operational conditions (OCs) that are proportional to the degree of concern for the health hazard presented by the substance. Exposures should be controlled to at least the levels that represent an acceptable level of risk, i.e. implementation of the chosen RMMs will ensure that the likelihood of an event occurring due to the hazard of the substance is negligible, and the risk is considered to be controlled to a level of no concern.

If the user complies with the following generic handling and storage risk management measures for skin sensitisation, risks due to skin sensitisation can be considered to be adequately controlled:

*Avoid direct skin contact with product.
Identify potential areas for indirect skin contact.
Wear gloves (tested to EN374) if direct hand contact with substance likely.
Clean up contamination/spills as soon as they occur.
Wash off skin contamination immediately.
Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop.*

Plus (where there is the potential for additional and significant aerosol exposure, e.g. associated with PROCs 7, 11, 17 or 18):

Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

Additionally, in instances where the substance is handled hot and/or dispersed in solvent, other physical measures designed to minimise skin contact will provide supplemental protection.

Environmental exposure assessment:

See Annex I attached to this SDS with the following Exposure Scenarios (ES):

Scenario ES1: Manufacture
Scenario ES2: Distribution
Scenario ES3: Use as an intermediate
Scenario ES4: Formulation
Scenario ES5: Use in coatings (Industrial)
Scenario ES6: Use in coatings (Professional)
Scenario ES7: Use in coatings (Consumer)
Scenario ES8: Use in agrochemicals (Consumer)
Scenario ES9: Use in laboratories (Industrial)
Scenario ES10: Use in polymer production (Industrial)
Scenario ES11: Use in polymer processing (Industrial)
Scenario ES12: Use in polymer processing (Professional)
Scenario ES13: Use in rubber production (Industrial)
Scenario ES14: Use in cleaning products (Industrial)
Scenario ES15: Use in cleaning products (Professional)
Scenario ES16: Use in cleaning products (Consumer)
Scenario ES17: Use in binders and release agents (Industrial)
Scenario ES18: Use in binders and release agents (Professional)



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Scenario ES19: Use as a fuel (Industrial)
Scenario ES20: Use as a fuel (Professional)
Scenario ES21: Use as a fuel (Consumer)
Scenario ES22: Use in roads and construction (Professional)
Scenario ES23: Other consumer uses
Scenario ES24: Use in laboratories (Professional)
Scenario ES25: Use in lubricants (Consumer)
Scenario ES26: Use in agrochemicals (Professional)
Scenario ES27: Use in paper and board production (Industrial)

Description of identified uses according to the use descriptor system of ECHA
(used in Annex I of this SDS):

Process categories (PROC):

PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC 4: Chemical production where opportunity for exposure arises
PROC 5: Mixing or blending in batch processes
PROC 6: Calendering operations
PROC 7: Industrial spraying
PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC 10: Roller application or brushing
PROC 11: Non industrial spraying
PROC 13: Treatment of articles by dipping and pouring
PROC 14: Tableting, compression, extrusion, pelletisation, granulation
PROC 15: Use as laboratory reagent
PROC 16: Use of fuels
PROC 17: Lubrication at high energy conditions in metal working operations
PROC 19: Manual activities involving hand contact
PROC 20: Use of functional fluids in small devices
PROC 21: Low energy manipulation and handling of substances bound in/on materials or articles
PROC 23: Open processing and transfer operations at substantially elevated temperature

Environmental Release Categories (ERC):

ERC 1: Manufacture of the substance
ERC 2: Formulation into mixture
ERC 4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC5: Use at industrial site leading to inclusion into/onto article
ERC 6a: Use of intermediate
ERC 6b: Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC 6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC 6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC 7: Use of functional fluid at industrial site
ERC 8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)



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ERC 8c: Widespread use leading to inclusion into/onto article (indoor)
ERC 8d: Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC 8f: Widespread use leading to inclusion into/onto article (outdoor)
ERC 9a: Widespread use of functional fluid (indoor)
ERC 9b: Widespread use of functional fluid (outdoor)

Sector of end use (SU):

SU 3: Industrial uses
SU 6b: Manufacture of pulp, paper and paper products
SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9: Manufacture of fine chemicals.
SU 10: Formulation
SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU 22: Professional uses

Chemical Products Categories (PC):

PC 1: Adhesives, sealants
PC 3: Air care products
PC 4: Anti-Freeze and de-icing products
PC 8: Biocidal products
PC 9a: Coatings and paints, thinners, paint removers
PC 9b: Fillers, putties, plasters, modelling clay
PC 9c: Finger paints
PC 13: Fuels
PC 15: Non-metal-surface treatment products
PC 18: Ink and toners
PC 19: Intermediates
PC 23: Leather treatment products
PC 24: Lubricants, greases, release products
PC 28: Perfumes, fragrances
PC 31: Polishes and wax blends
PC 34: Textile dyes, and impregnating products
PC 35: Washing and cleaning products
PC 38: Welding and soldering products, flux products
PC 39: Cosmetics, personal care products

Disclaimer

: The information provided in this SDS is correct at the date of publication. The information provided is designed as a guide for handling, use, processing, storage, transportation, disposal and release and is not considered a warranty or quality specification product. The information relates only to the specific product and may not be valid for such product used in combination with other materials or any other procedure, unless otherwise indicated in the text.