Date: 26/07/2019 Version: 1



SAFETY DATA SHEET - ROSIN

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

Product Name / Code: Rosin / PAT860

REACH Key Notes: 01-2119480418-32-xxxx

Application of Substance: A resinous by-product when turpentine is distilled from resin in trees.

> Used by printers in the aqua-tinting process, occasionally by painters during the mixing of oil paints and, in solid form, by violin players. Dancers apply rosin, from rosin trays, to their shoes to improve grip.

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Telephone operated from 08:30 - 17:30 Monday to Friday, 09:00 - 14:00 Saturday. In an emergency, seek advice from a medical professional.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture According to 1272/2008/EC Regulation.

Skin sensitizer: Category 1

Label Elements:

Pictogram:



Signal Word: Warning

Hazard Statements: H317 - May cause an allergic skin reaction

Precautionary Statements: P210 - Keep away from heat/sparks/open flames/hot surfaces. No

smoking

P261 - Avoid breathing dust/fume

P280 - Wear protective gloves/protective clothing

P302 + P352 - If on skin: Wash with plenty of soap and water P333 + P313 - If skin irritation or rash occurs: Get medical advice/

attention

P363 - Wash contaminated clothing before reuse

P 5-01 Dispose contents/container according to the end user disposal

procedure

According to 67/548/EC Regulation: Xi - Irritant



Risk Phrase: R 43 - May cause sensitization by skin contact.

Date: 26/07/2019 Version: 1



Safety Phrases: S 24 – Avoid contact with skin

S 37 - Wear suitable gloves

3. COMPOSITION / INFORMATION ON INGREDIENTS

In accordance with Annex II of Regulation (EC) no1907/2006 (point 3), the product contains:

Identification	Chemical Name / Classification		Concentration
CAS: 8050-09-7	Rosin	ATP CLP00	
EC: 232-475-7	Directive 67/548/EC	Xi: R43 x	100%
Index:650-015-7	Regulation 1272/2008	Skin sens1: H317- Warning 🤍	

4. FIRST AID MEASURES

Eyes: Immediately flood eyes with plenty of low pressure water for at least 10

minutes, holding eye open. Remove contact lenses. Obtain medical

assistance if redness develops or persists.

Skin: Wash skin thoroughly with soap and water. Obtain medical help if redness

develops. If hot product on skin, small splashes should be cooled with cold water. When cold, the burn area should then be treated and when this process is complete the solid resin can be removed. Where large splashes are encountered cool the skin with water and seek medical help.

Ingestion: Wash out mouth with water. Do not induce vomiting. Obtain medical

attention if a large amount has been swallowed.

Inhalation: Remove from exposure, keep warm and at rest. Obtain medical attention

if breathing difficulty occurs.

Acute and delayed effects are indicated in sections 2 and 11.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry chemical or water fog

Unsuitable Extinguishing Media: Water

Protective Equipment: Self-contained breathing apparatus needed for fires in enclosed areas.

Special Hazards: Rosin dust is a severe explosion hazard in air, avoid dispersing dust in

air. Minimum exposable concentration: 15g/m³. Risk of spark ignition prevented by reducing oxygen concentration below 17% by dilution with

carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid breathing dust. Wear a dust respirator, gloves, chemical goggles

and overalls.

Environmental Precautions: Avoid dispersion of the product.

Clean-Up Methods: Sweep up or otherwise recover the product and remove to a safe

environment.

Date: 26/07/2019 Version: 1

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Avoid propagating more dust than is absolutely unavoidable.

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7. HANDLING AND STORAGE

Additional Advice:

Personal Precautions: Wear protective clothing and dust mask. Avoid processes that generate

excessive dust.

Suitable Storage Container: Galvanised iron drums or paper sacks internally coated with silicone or

with a polypropylene liner.

Handling/Storage Precautions: Explosion proof ventilation adequate to meet any dust conditions at

room temperature. Store in cool, well ventilated conditions. Explosion proof electrical services should be used where dusty conditions prevail. Prevent static sparks. Product can spontaneously heat during storage -m exercise care. Avoid placing this material next to, or in contact with,

oxidising agents.

Specific End Uses: Except for the instructions already specified it is not necessary to

provide special recommendations regarding the uses of this product.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Substances whose occupational exposure limits have been monitored in the work environment.

Nuisance dust: Inhalable dust 10 mg/m³ Respirable dust: 4 mg/m³

DNEL Workers: Long-term exposure – systematic effects:

Dermal DN(M)EL: DNEL (Derived No Effect Level) = 17 mg/kg bw/day Inhalation DN(M)EL: DNEL (Derived No Effect Level) = 117 mg/m³

General Population: Long-term exposure – systematic effects:

Dermal DN(M)EL: DNEL (Derived No Effect Level) = 10 mg/kg bw/day Inhalation DN(M)EL: DNEL (Derived No Effect Level) = 35 mg/m³
Oral DN(M)ELD: NEL (Derived No Effect Level) = 10 mg/kg bw/day

Components to control with biological restricted values:

PNEC: Freshwater: 0,0016 mg/ L

Freshwater sediments: 0,007 mg/kg sediment dw

Marine water: 0,00016 mg/ L

Marine sediments: 0,0007 mg/kg sediment dw

Oral: No bioaccumulation potential

STP: 1000 mg/L

Soil: 0,0045 mg /kg soil dw

Exposure Controls:

Appropriated Technical

Control Measures: Dust extraction pointed to local of formation.

Respiratory Protection: Wear respiratory protection against organic vapours.

Hand Protection: Wear appropriate gloves to prevent skin exposure.

Eye/face Protection: Wear chemical splash goggles conforming to EN 166.

Skin Protection: Wear appropriate clothing to prevent skin exposure.

Date: 26/07/2019 Version: 1



Environmental Exposure Control:

Organisational Measures: Apply general preventive measures in chemical safe handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Water-white to dark brown vitreous solid

Odour: Characteristic (slight turpentine odour)

pH: N/A

Melting Point (Ring and Ball): 65 - 90°C

Flash Point: >205°C

Auto Ignition Temperature: >390°C

Explosive Properties: Severe dust explosion hazard in air

Oxidising Properties: None

Vapour Pressure: <0.1 hPa

Relative Density at 15 °C: ~ 1.08

Solubility: Insoluble in water. Aromatic hydrocarbons, chlorinated hydrocarbons,

alcohols, ketones. Unsaponifiable matter 8% max

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions are expected.

Chemical Stability: Substance is stable at normal temperature and pressure. Substance is

oxidised by atmospheric oxygen.

Conditions to Avoid: Generation of dust in air

Incompatible Materials: Oxidising agents

Hazardous Decomposition Products: Thermal oxidation may result in formation of formaldehyde and carbon

monoxide.

11. TOXICOLOGICAL INFORMATION

Oral Acute Toxicity:

Method: OECD Guideline 420 (Acute Oral Toxicity)

Species: Rat (male and female)

Route of Administration: Oral, gavage

Conclusion: LD50> 2000 mg/kg similar substance

The classification criteria for oral acute toxicity or specific target organ toxicity by acute exposure were not

met, according to GHS, CLP and 67/548/EC. Analysis based on acquired data.

Inhalation: Based on available data, the classification was not met

Dermal Acute Toxicity:

Method: OECD Guideline 402 (Acute Dermal Toxicity) / EU Method B.3

(Acute Toxicity (Dermal))

Date: 26/07/2019 Version: 1



Species: Rabbit (male and female)

Route of Administration:

Dermal, topic

2000 mg/kg bw

Period of Exposure:

24 hours

Conclusion: LD50>2000 mg/kg (rabbit, male/female), similar substance

Classification criteria for dermal acute toxicity, irritation or skin corrosion or for single target organ toxicity by acute exposure, based on GHS, CLP and 67/548/EC, were met. Analysis based on

acquired data for similar substance.

Irritation and Skin Corrosion: Classification not determined due to lack of data.

Method: OECD Guideline 404 (Acute Dermal Irritation / Corrosion) / EU Method B.4

Species: Rabbit

Route of Administration: Dermal, semiocclusive

Doses: 0.5 g
Period of Exposure: 4 hours

Conclusion: During tests no edema was observed.

Classification criteria for dermal acute toxicity, irritation or skin corrosion or for single target organ toxicity by acute exposure, based on GHS, CLP and 67/548/EC, were not met. Analysis based on acquired data.

Eye Irritation and Damage:

Method: OECD Guideline 405 (Acute Eye Irritation / Corrosion) /equivalent method

Species: Rabbit
Route of Administration: Cornea, topic

Doses: 100 mg/eye/specimen

Period of Exposure: Single dose

Conclusion: Slight reversible redness of the conjunctivae was observed on some

animals Classification criteria for eye irritating, based on GHS, CLP and

67/548/EC, were not met. Analysis based on acquired data.

Skin Sensitisation:

Method: OECD Guideline 429 (LLNA), method equivalent to

Species: Rat (female)

Conclusion: Based on study results, rosin is not a moderate or strong skin sensitiser

to rats. Rosin did not show any potential to act as skin sensitiser. The classification criteria for skin sensitising, based on GHS, CLP and 67/548/EC, were not met. Analysis based on acquired data.

present rosin as R43 - May cause sensitization in contact with skin and

However, Annex I in Directive 67/548/EEC and table 3,1 in CLP Regulation

H317: May cause skin allergic response, respectively.

Mutagenicity: Absence of genotoxic and mutagenic effects. Classification criteria were

not met.

Carcinogenicity: Based on the data available, the classification was not met.

Toxicity for Reproduction: Criteria were not met and the product is not classified for Developmental

or Reproductive Toxicity according to GHS, CLP and 67/548/EC.

Date: 26/07/2019 Version: 1



Long Exposure Effects: No reliable data available.

12. ECOLOGICAL INFORMATION

Short Term Toxicity:

Fish: 96h, LL50 < 10 mg/l (nominal, based on mortality)

Brachydanio rerio, OECD 203

48 h, NOELr = 750 mg/l (nominal, based on mobility)

Aquatic Invertebrates: 48h, EL50 = 911 mg/l (nominal, based on mobility)

Daphnia magna OECD, 202

72h, NOEL1r ≥ 1000 mg/1 (nominal, similar substance, based on growth

rate and biomass)

Algae and Aquatic Plants: 72h, LL50 = 1000 mg/l 1 (nominal, similar substance, based on growth

rate and biomass) Selenastrum capriconutum OECD 201

Other organisms: Not determined

Long Term Toxicity: Not determined

Biodegradation: Substance is readily biodegradable.

71% degradation after 28 days.

OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Partition coefficient: n-octanol/water (log Kow) - refer to section 9

Bioconcentration factor (BCF): 56,23 l/kg wet-wt (QSAR, regression-based m.)

Bioaccumulation factor (BAF): 694 000 (Arnot-Gobas upper trophic m.)

Soil Mobility: Partition coefficient soil/water (Koc) log Koc = 3,7289 (QSAR, estimated

from log Kow)

Product does not fulfil PBT or vPvB criteria.

13. DISPOSAL INFORMATION

Dispose of waste to a licensed disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not allow into drains, sewers and water courses. Used containers should be recycled after dust removal.

14. TRANSPORT INFORMATION

Not classified in accordance with ADR/RID, IMDG and IATA.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture classification according to:

Regulation (CE) n. 1005/2009: N/A

Regulation (CE) n. 1907/2006: Annex XVII, not restricted substance

Directive n. 2003/53/EC: N/A

Date: 26/07/2019 Version: 1 FLINTS
Theatrical Chandlers

Directive n. 2003/105/CE: Substance not classified in the scope of the directive.

N/A

Regulation (CE) n. 850/2004:

The German Federal Water

Management Act: Classe WGK 1

16. OTHER INFORMATION

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of work place risk associated with product(s) used as required under any other Health and Safety Regulation.

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