

## HIDERSINE/HILL ROSIN - SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION	
Name of Substance	ROSIN
Chemical Name	Naturally occurring Abietic Acid blended
Other Names	Colophony, Kolophonium
Uses	Friction Aid
SUPPLIER	
Name and Address	Barnes & Mullins, Unit 14, Mile Oak Ind. Estate, Oswestry, Shropshire SY10 8GA
Emergency Contact	+44 (0) 1691 652449
Email Contact	Lynn.burgoine@bandm.co.uk

2. HAZARD IDENTIFICATION	
Hazard Description According to 1272/2008/EC Regulation	
Hazard Statement Code	H317
Hazard Class and Category Code	Skin Sensitizer. 1
Hazard Description According to 67/548/EC Regulation	
Hazard Statement Code	R43
Classification	Xi - Irritant

3. MATERIAL COMPOSITION	
Chemical Description	Gum Rosin, Vegetable Tallow, Japan Wax and Dye
EINECS No.	232-475-7, 310-125-6, 267-008-6, N/A
CASNo.	8050-09-7, 8001-39-6, 67762-27-0, N/A
Hazardous Component	Rosin Acids

4. FIRST AID MEASURES	
Product in 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.
Product on Skin	Wash skin thoroughly with soap and water. Obtain medical help if redness develops
Product Ingested	Wash out mouth with water. Do not induce vomiting Obtain medical attention if a large amount has been swallowed.
Product Inhaled	Remove from exposure, keep warm and at rest. Obtain medical attention if breathing difficulty occurs.

5. FIRE FIGHTING MEASURES	
Extinguishing Media	Carbon dioxide, dry chemical or water fog
Special Hazards	Burning product can produce CO and CO2
Protective Equipment	Self contained breathing apparatus needed for fires in enclosed areas.
Other information	May form flammable dust. 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
Additional Advice	Avoid propagating more dust than is absolutely unavoidable.

7. HANDLING AND STORAGE	
Precautions for safe handling	No special measures required.
Conditions for safe storage	No special measures required.
Technical measures	No special measures required.
Storage conditions	Store in a cool, dry place.Keep away from combustion source. Protect from exposure to sunlight.
Incompatible products	No further relevant information.
Storage temperature	Below 25°C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION	
Occupational Exposure Standards:	
HSE	Not assigned
MAK	Not assigned
ACGIH	Not assigned- suggest 100 ppm (560 mg/m <sup>3</sup> of air) for a period of 8 hours (TWA from OSHA) - Particulates not otherwise classified
Engineering Control Measures	Use local exhaust ventilation to keep the handling operations free from dust.
Personal protection	None necessary, follow first aid instructions.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Boiling point	318 C
Vapour pressure @317 C	100 mm Hg - Specific gravity 1.07
Vapour density	N/A
pH	N/A
% volatile (vol)	Negligible @ 20 C
Evaporation rate	N/A
Softening point	82 C

10. STABILITY AND REACTIVITY	
Stability	Substance is stable at normal temperature and pressure.
Oxidation	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	
Acute Toxicity	Ingestion of large quantity may cause intestinal obstruction.
Skin and Eye Contact	Repeated and prolonged skin contact may lead to the development of allergic dermatitis.
Inhalation	Acute inhalation studies with rats submitted to decomposition fumes of this type of resin indicate low toxicity.
Sub/Chronic Toxicity	Data not available
Carcinogenicity	Data not available
Mutagenicity	Data not available

12. ECOLOGICAL INFORMATION	
Aquatic Toxicity - Fish	Data not available
Aquatic Toxicity- Daphnia	Data not available
Aquatic Toxicity-Algae	Data not available
Biodegradability	No data available, but likely to biodegrade
Bio-Accumulation	Unlikely to occur
Mobility	
GermanWGK	Not assigned
Other Data	

13. DISPOSAL CONSIDERATIONS	
Disposal Methods of Product	Can be disposed of with household waste.

14. TRANSPORT INFORMATION	
ADR/RID	
Description	Rosin
Class, Item Number	Not classified
Hazard Identification No	
Substance	
IMDGCode ...	
Proper Shipping Name	Rosin
Class	Not classified
Transport Information Cont...	
Packaging Group	
UN Number	-
Marine Pollutant	Not listed
EmSNumber	-
MF AG Table Number	-
IATA ...	-
Proper Shipping Name	Rosin
Class	Not classified
Subsidiary Risks	-
UN Number	-
UK ...	Rosin
Description	-
Substance Identification No	-
Emergency Action Code	-
Classification	Not classified
The product is not covered by international regulation on the transport of dangerous goods (ADR/RID, IMDG, IATA)	

15. REGULATORY INFORMATION	
According to 1272/2008/EC regulation:	
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 P501 - Dispose contents/container according to the end user disposal procedure
According to directive 67/548/CE	
Risk Phrase	R 43 - May cause sensitization by skin contact.
Safety Phrases	S 24 - Avoid contact with skin S 37 - Wear suitable gloves

16. OTHER INFORMATION	
BARNES & MULLINS has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the data was prepared. No warranty, guarantee or representation is made as to the correctness or sufficiency of the information. The user of this product must decide for itself what safety measures are required to safely use this product, either alone or in combination with other products.	