

**SECTION 1: Identification of the substance/mixture and of the company undertaking****1.1 Product identifier:**

Trade Name: **ADINO HM 9189.0**

**1.2 Relevant identified uses of the substance and uses advised against:**

*Relevant identified uses of the substance or mixture: Adhesives*

*Uses advised against : Restricted to professional users.*

**1.3 Details of the supplier of the safety data sheet:**

Adino GmbH  
Lange Wand 16  
D-27753 Delmenhorst  
Tel. +49 4221-98 3010 /30  
E-Mail: qc@adinoklebstoffe.de

**1.4 Emergency telephone number:**

+49 / (0)700 24112112 (AKR)

**SECTION 2: Hazard Identification****2.1 Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

*The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP)*

Skin Sens.	1	H317	May cause an allergic skin reaction.
Eye Irrit	2B	H319	Causes serious eye irritation.

**2.2 Label elements:**

**Labelling according to Regulation (EC) No 1272/2008**

*The product is classified and labelled according to the CLP regulation.*

**Hazard pictograms :**



**Signal word :** Warning

**Hazard-determining components of labelling:**

*Mixture composed of rosin and synthetic polymer*

**Hazard statements**

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation

**Precautionary statements**

**Prevention:**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash affect area thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P302+P352	IF ON SKIN: wash the 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.

P333+P313 if skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Disposal**

P501 Dispose of content/container according to governmental regulations.

**2.3 Other hazards**

*Molten adhesive may cause severe burns.*

*Static charges generated while emptying package in or near flammable vapours may cause ignition.*

*Vapours of molten adhesive may cause eye, skin and respiratory tract irritation.*

### SECTION 3: Composition/Information on Ingredients

#### 3.1 Substance

*n.a.*

#### 3.2 Mixtures

*Chemical Description : Mixture composed of rosin and synthetic polymer*

Dangerous components :		
CAS: 24937-78-8	Ethylene Vinyl Acetate co-polymer ----	45-55%
CAS: 71302-83-5	Hydrocarbon resins H332; Skin Irrit.2 , H319; Eye Irrit.2	5-10%
CAS: 8050-31-5	Rosin esters H332; Skin Irrit.2 , H319; Eye Irrit.2	5-15%
CAS: 68131-77-1	Distillates (petroleum), steam cracked, polymerized H332; Skin Irrit.2 , H319; Eye Irrit.2	10-20%
CAS: 471-34-1	Calcium carbonate H332; Skin Irrit.2 , H319; Eye Irrit.2	5-10%

\* exact percentages may vary or are trade secret. Concentration range is providing appropriate protections.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures:

*Not specifically necessary. Observance of good industrial hygiene is recommended.*

#### 4.2 Most important symptoms and effects, both acute and delayed

*No episodes of damage to health ascribable to the product have been reported*

#### 4.3 Indication of any immediate medical attention and special treatment needed

*Information not available.*

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

*Suitable extinguishing agents*

*CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.*

*Unsuitable extinguishing media*

*High volume water jet.*

#### 5.2 Special Hazards arising from the substance or mixture

*In case of fire the following can develop: Oxides of carbon, Oxides of nitrogen, Isocyanates, Hydrocyanic acid (hydrogen cyanide), Toxic gases, Danger of bursting (explosion) when heated*

#### 5.3 Advice for firefighters

*In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.*

*According to size of fire. Full protection, if necessary. Cool container at risk with water.*

*Dispose of contaminated extinction water according to official regulations.*

### SECTION 6: Accidental release measures

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

*Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin.*

*Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.*

#### 6.2 Environmental precautions.

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*If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.*

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

*Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth on point 13.*

**6.4 Reference to other sections.**

*For personal protective equipment see Section 8 and for disposal instructions see Section 13.*

**SECTION 7: Handling and storage**

*In addition to information given in this section, relevant information can also be found in section 8 and 6.1.*

**7.1 Precautions for safe handling.****7.1.1 General recommendations**

*Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.*

**7.1.2 Notes on general hygiene measures at the workplace**

*General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.*

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

*Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.*

**7.3 Specific end use(s)**

*No further relevant information available.*

**SECTION 8: Exposure control/personal protection**

*Additional information about design of technical systems: No further data; see item 7.*

**8.1 Control parameters**

*Information not available.*

**8.2 Exposure controls.****8.2.1 Appropriate engineering controls**

*Information not available.*

**8.2.2 Individual protection measures, such as personal protective equipment**

*General hygiene measures for the handling of chemicals are applicable.*

*None Required.*

**Eye/face protection:**

*None Required.*

**Skin protection - Hand protection:**

*None Required.*

**Skin protection - Hand protection:**

*None Required.*

**Skin protection - Other:**

*Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)*

**Respiratory protection:**

*None required, unless indicated otherwise in the chemical risk assessment.*

**Thermal hazards:**

*Not applicable*

**8.2.3 Environmental exposure controls**

*The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.*

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

<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Solid
<b>Colour:</b>	.0 = Natural
<b>Smell:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not applicable.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not determined.
<b>Flash point:</b>	>100 °C
<b>Inflammability (solid, gaseous)</b>	n.a.
<b>Ignition temperature:</b>	n.a.
<b>Decomposition temperature:</b>	Not determined.
<b>Spontaneous combustion:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Critical values for explosion:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	Not determined.
<b>Density at 20 °C</b>	
<b>Relative density</b>	~1.0 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>Evaporation rate.</b>	Not determined
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible
<b>Distribution ratio (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 180 °C:</b>	~8,000 mPa.s
<b>kinematic:</b>	Not determined.
<b>Explosive properties:</b>	Product is not explosive
<b>Oxidizing properties:</b>	Not applicable
<b>9.2 Other information</b>	
<b>Miscibility:</b>	Not determined.
<b>Fat solubility / solvent:</b>	Not determined.
<b>Conductivity:</b>	Not determined.
<b>Surface tension:</b>	Not determined.
<b>Solid content:</b>	100.00%
<b>Softening temperature:</b>	~ 86 °C (R&B)

**SECTION 10: Stability and reactivity**
**10.1 Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**10.2 Chemical stability.**

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions.**

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4 Conditions to avoid.:

*None in particular. However, the usual precautions used for chemical products should be respected.*

#### 10.5 Incompatible materials.:

*Information not available.*

#### 10.6 Hazardous decomposition products.

*Information not available.*

### SECTION 11: Toxicological information

*Possibly more information on health effects, see Section 2.1 (classification).*

#### 11.1 Information on toxicological effects.

##### Acute toxicity :

*LD/LC50 values that are relevant for classification:*

24937-78-8 Ethylene Vinyl Acetate Co-polymer			
Toxicity/effect	Endpoint	Value	Note
Acute toxicity, by oral route:	LD50	Not classified (no significant component).	
Acute toxicity, by dermal route:	LD50	Not classified (no significant component).	
Acute toxicity, by inhalation:	LD50	Not classified (no significant component).	
71302-83-5 Hydrocarbon resins			
Acute toxicity, by oral route:	LD50	>2000 mg/kg (rat)	OECD 423
Acute toxicity, by dermal route:	LD50	Not classified (no significant component).	
Acute toxicity, by inhalation:	LD50	Not classified (no significant component).	
8050-31-5 Rosin esters			
Acute toxicity, by oral route:	LD50	>2000 mg/kg (rat)	
Acute toxicity, by dermal route:	LD50	>5000 mg/kg (rabbit)	
Acute toxicity, by inhalation:	LD50	Not classified (no significant component).	
68131-77-1 Distillates (petroleum), steam cracked, polymerized			
Acute toxicity, by oral route:	LD50	>5000 mg/kg (rat)	
Acute toxicity, by dermal route:	LD50	Not classified (no significant component).	
Acute toxicity, by inhalation:	LD50	Not classified (no significant component).	
471-34-1 Calcium carbonate			
Acute toxicity, by oral route:	LD50	>6450 mg/kg (rat)	
Acute toxicity, by dermal route:	LD50	Not classified (no significant component).	
Acute toxicity, by inhalation:	LD50	Not classified (no significant component).	

##### Primary irritant effect:

**Skin corrosion/irritation** : molten adhesive may cause severe burns.

**Serious eye damage/irritation** : may cause mechanical irritation from dusts. Fumes released during melting may cause eye irritation. Permanent damage will cause from molten adhesive in eye

**Respiratory or skin sensitization** : Dusts from solid adhesive may cause irritation. Continuous breathing vapour of molten adhesive may irritate mucous membranes.

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

*Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.*

#### 12.1 Toxicity

**Aquatic toxicity**: No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behaviour in environmental systems:**

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**12.2 Persistence and degradability**

Information not available.

**12.3 Bioaccumulative potential**

Information not available.

**12.4 Mobility in soil.**

Information not available.

**12.5 Other adverse effects**

Information not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation:**

Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Hand over to disposers of hazardous waste.

**13.2 Waste treatment methods**

**Recommendation:**

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 10 packaging containing residues of or contaminated by dangerous substances

**SECTION 14: Transport information**

<b>14.1 UN-Number</b> ADR, ADN, IMDG, IATA	not applicable
<b>14.2 UN proper shipping name</b> ADR, ADN, IMDG, IATA	not applicable.
<b>14.3 Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	not applicable.
<b>14.4 Packing group</b> ADR, IMDG, IATA	not applicable.
<b>14.5 Environmental hazards:</b> Marine pollutant:	not applicable. no.
<b>14.6 Special precautions for user</b>	not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Non-dangerous material according to Transport Regulations.
UN "Model Regulation":	-

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture :***No further relevant information available.***15.2 Chemical safety assessment:***A Chemical Safety Assessment has not been carried out.***SECTION 16: Other information**

*These data are based on our present knowledge. They shall, however, not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. All standard industrial precautions apply, concerning protection of health, and safe handling. The recommendations have to be examined in the context of the application for which the product is intended,*

**Relevant phrases**

H317	May cause an allergic skin reaction
H319	Cause serious eye irritation
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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash affected area thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of content/container according to governmental regulations.

**Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*