

## Material Safety Data Sheet

### Gum rosin

#### SECTION 1.1 – PRODUCT IDENTIFICATION

**Product Name** : Gum rosin  
**Molecular Formula** :  $C_{20}H_{30}O_2$   
**Molecular Weight** : 302 g/mole  
**CAS No.** : 8050-09-7

#### SECTION: 1.2 COMPANY IDENTIFICATION

**Company Name:** Indenta Chemicals (India) Pvt. Ltd.

**Address:** 117, The Summit Business Bay, Opp Cinemax, Off. Sir M.V. Road, Near WEH Metro Station, Andheri (E), Mumbai 400 093, India

**Telephone #:** +91-22-26849600

**Fax #:** +91-22-26849060

#### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Gum rosin	8050-09-7	100

#### SECTION 3: HAZARD IDENTIFICATION

##### 3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



**Pictogram**

Signal word Warning

According to Directive 67/548/EEC:



Xi; Irritant R43: may cause sensitization by skin contact

Skin sensitisation (Category 1), H317: May cause an allergic reaction

##### 3.2 Label elements

Labelling according Regulation (EC) No 1272/2008



**Pictogram**

Signal word Warning

#### Indenta Chemicals (India) Pvt. Ltd.

Office: 117 The Summit Business Bay, Near WEH Metro Station, Opp. Cinemax Theatre, Off. Andheri Kurla Road, Andheri (E), Mumbai 400 093.  
 Phone : +91-22-2684 9600 | Fax : +91-22-2684 9060 | Email: indenta@indenta.com | Website : www.indenta.com

Unit 1: Plot No. 1405, GIDC Sarigam, Dist. Valsad, Gujarat – 396155

Unit 2: Building No. 73, Gala No. 7, Indian Corporation Compound, Village Gundavli, Mankoli Naka, Bhiwandi, Thane - 421302



### Hazard statement(s)

H317 May cause an allergic skin reaction.

### Precautionary statement(s)

P261 avoid breathing dust/fume  
 P272 contaminated work clothing should not be allowed out of the workspace  
 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  
 P321 specific treatment (see ... on this label)  
 P363 wash contaminated clothing before reuse  
 P501 dispose of contents/container to ...

### 3.3 Other hazards

vPvB/PBT assessment according to regulation (EC) No 1907/2006, Annex XIII : Not PBT and not vPvB Other hazards

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

#### General advice

Following inhalation: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately

Following skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse

Following eyes contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs

Following ingestion: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband

Note for the doctor: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled

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

Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma

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

No data available

## SECTION 5: FIRE AND EXPLOSION DATA

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### 5.1 Extinguishing media

Suitable extinguishing media: use water spray or mist, dry chemical, foam or CO<sub>2</sub>

Unsuitable extinguishing media: Do not use water jet.

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

Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

When processed with flammable liquids/vapors/mists, ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the MIE will be lower than the pure dust in air mixture. The LEL of the vapor/dust mixture will be lower than the individual LELs for the vapors/mists or dusts. See NFPA 77 for additional guidance.

Hazardous combustion products: thermal decomposition products include formaldehyde, acetone, methanol, aldehydes, carbon dioxide, carbon monoxide, methane, ethane and acids.

### 5.3 Advice for firefighters

No special measures required.

### 5.4 Further information

No data available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Minimize airborne dust and eliminate all fire/ignition sources. Clean up spill as soon as possible using procedures described below. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### 6.2 Environmental precautions

Not special measures required Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

Small spill: move containers from spill area. Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Use spark-proof tools and explosion-proof equipment. Vacuums with explosion-proof motors should be used. Dispose of via a licensed waste disposal contractor

Large spill: move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid creating dusty conditions and prevent wind dispersal. Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Use spark-proof tools and explosion-proof equipment. Vacuums with explosion-proof motors should be used. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 3.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: keep products in a dried and well ventilated room

Packaging material: -NA

Requirements for storage rooms and vessels: keep container tightly sealed

Further information on storage conditions: -NA

## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

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### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

##### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:Dermatril®

##### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:Dermatril®

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle

respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: Solidified mass or fragments Colour: faint or dark yellow
b) Odor	odourless
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	Melting point/range: 66,5 - 93,4 °C at ca.1013,0 hPa
f) Initial boiling point and boiling range	No data available/the substance decomposes before boiling.
g) Flash point	188 °C - closed cup
h) Evaporation rate	No data available
i) Flammability (solid,gas)	Not highly flammable
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	400 pa at 124.5 °C
l) Vapor density	No data available
m) Relative density	ca.1.034 kg/m <sup>3</sup> at 20 °C
n) Water solubility	0,0009 g/l at 20 °C - OECD Test Guideline 105 - soluble
o) Partition coefficient: n-octanol/water	Rosin is a UVCB and thus has a range of log K <sub>ow</sub> From 3.0 to 6.2 log Pow: 1,9 - 7,7
p) Autoignition temperature	No data available
q) Decomposition temperature	Approx 200°C
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### 9.2 Other safety information

No data available

## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

#### **10.6 Hazardous decomposition products**

Thermal decomposition products include formaldehyde, acetone, methanol, aldehydes, carbon dioxide, carbon monoxide, methane, ethane and acids

### **SECTION 11: TOXICOLOGICAL INFORMATION**

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#### **11.1 Information on toxicological effects**

##### **Acute toxicity**

LD50 Oral - Rat - male and female - 2.800 mg/kg

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

##### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

##### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

##### **Respiratory or skin sensitisation**

No data available

##### **Germ cell mutagenicity**

Ames test

S. typhimurium

Result: negative

##### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### **Reproductive toxicity**

No data available

##### **Specific target organ toxicity - single exposure**

No data available

##### **Specific target organ toxicity - repeated exposure**

No data available

##### **Aspiration hazard**

No data available

##### **Additional Information**

RTECS: VL0480000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: ECOLOGICAL INFORMATION**

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#### **12.1 Toxicity**

Toxicity to fish                      static test LC50 - Brachydanio rerio (zebrafish) - 60,3 mg/l - 96 h  
(OECD Test Guideline 203)

#### **12.2 Persistence and degradability**

Biodegradation in water: readily biodegradable

#### **12.3 Bioaccumulative potential**

Aquatic BCF of rosin is 56.23 L/kgwwt (QSAR estimation)



**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

A detailed analysis of the Persistence, Bioaccumulation and Toxicity has been brought together into a clear conclusion on whether rosin is not a PBT/vPvB substance.

**12.6 Other adverse effects**

No data available

**SECTION 13: DISPOSAL CONSIDERATION**

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**13.1 Waste treatment methods****Product**

Product / Packaging disposal: -

Waste Codes / Waste Designations According to EWC / AVV: 16 03 05\* - organic wastes containing dangerous substances

Waste Treatment Relevant Information: -

Sewage Disposal Relevant Information: do NOT wash away into sewer

Other Disposal Recommendations.

**Contaminated packaging**

Dispose of as unused product.

**13.2 Additional Information**

Recycle any unused portion of the material for its approved use or return it to the manufacturer or supplier. Ultimate disposal of the chemical must consider the material's impact on air quality; potential migration in soil or water; effects on animal, aquatic, and plant life; and conformance with environmental and public health regulations.

**SECTION 14: TRANSPORT INFORMATION**

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**14.1 UN number-** Not classified as dangerous by the legislation of transportation of dangerous products

ADR/RID: - NA

IMDG: - NA

IATA: - NA

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - NA

IMDG: - NA

IATA: - NA

**14.4 Packaging group**

ADR/RID: - NA

IMDG: - NA

IATA: - NA

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

No data available

**SECTION 15: OTHER REGULATORY INFORMATION**

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

Authorization: Not applicable

Restriction: Not applicable

Other EU regulations: Not applicable

Other national regulations: Not applicable

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## SECTION 16: ADDITIONAL INFORMATION

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