



**Industrial  
Oleochemical  
Products**

# SAFETY DATA SHEET

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## Oleotall R20-5

### Customized distilled tall oil

Fractional distillation of crude tall oil derived from the Kraft pulp and paper process provides distilled tall oil which finds use in lubricant emulsions such as cutting oils. Oleotall R20-5 is a DTO comprises of rosin content between 20-25%

#### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER:

<b>Product name:</b>	Oleotall R20-5	
<b>Product identifier/synonyms:</b>	Customized distilled tall oil	CAS# 8002-26-4 EC #232-304-6
<b>Product description:</b>	Distilled tall oil – mixture of tall oil rosin acids and tall oil fatty acids	
<b>Intended use:</b>	Industrial uses of distilled tall oil	
<b>Application of the substance / the mixture</b>	Lubricants Mould release agents Drilling fluids Soaps	
<b>Manufacturer:</b>	Industrial Oleochemical Products, (Pty) Ltd., Jacobs, 4052, KZN, Tel: +27-(0)31-4618680, Fax:: +27-(0)31-461-3743 <a href="mailto:info@oleo.co.za">info@oleo.co.za</a>	
<b>Emergency telephone number:</b>	031-461-8721 (Monday-Friday 08.00 to 16.30hr) 031-461-8680 (after normal working hours) 071-483-7688 (medical emergencies)	



Oleotall R20-5

#### 2. HAZARD IDENTIFICATION

This substance is not classified according to South African National Standard SANS 10234:2007, Globally Harmonized System of classification and labelling of chemicals (GHS). This substance is not classified in the Annex I of Directive 67/548/ (Index # 650-015-00-7) according to ESIS (European Chemical Substances Information System).

##### Flammability:

Hazard category	Criteria
0	Flash point (COC) >200°C

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## Oleotall R20-5 - Customized distilled tall oil

### HAZARD IDENTIFICATION: (continuation from page 1)

<b>Classification of the substance or mixture</b>	The substance is not classified according to the Global Harmonized System (GHS)
<b>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</b> <b>Information concerning particular hazards for human and environment</b> <b>CAUTION!</b>	
<b>POTENTIAL HEALTH EFFECTS – (Liquid product at ambient temperatures)</b>	Not classified
<b>GENERAL HYGIENIC PRACTICES</b>	Avoid contact with eyes, skin, and clothing. Avoid breathing vapours or mist. Handle in areas with adequate ventilation. Refer to SDS Section 8, Exposure Controls / Personal Protection, for further information.
<b>Label elements (GHS label elements)</b> <b>The substance is classified and labelled according to the Global Harmonized System (GHS)</b>	
<b>Hazard pictograms</b>	Void
<b>Signal word</b>	Void
<b>Hazard statements</b>	Void

### PRECAUTIONARY STATEMENTS

<b>P202</b>	Do not handle until all safety precautions have been read and understood
<b>P210</b>	Keep away from heat / sparks / open flames / hot surfaces – NO SMOKING
<b>P234</b>	Keep only in original packaging
<b>P261</b>	Avoid breathing fumes/ gas/mist / vapours/ spray
<b>P262</b>	Do not get in eyes, on skin, or on clothing
<b>P264</b>	Wash thoroughly after handling
<b>P270</b>	Do not eat, drink or smoke when using this product
<b>P280</b>	Wear protective gloves / eye protection
<b>P 301 + P312</b>	If swallowed: call a doctor if you feel unwell
<b>P301 + P330 + P331</b>	If swallowed: Rinse mouth. DO NOT induce vomiting
<b>P302 + P352</b>	If on skin: Wash with plenty of soap and water
<b>P304 + P312</b>	IF INHALED: Call a doctor if you feel unwell
<b>P304 + P341</b>	If inhaled: if breathing is difficult, remove person to fresh air and keep comfortable for breathing (continues on page 3)

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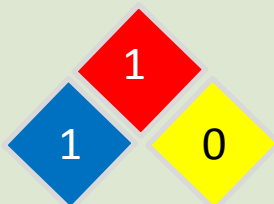
## Oleotall R20-5 - Customized distilled tall oil

### HAZARD IDENTIFICATION: (Continuation from page 2)

#### PRECAUTIONARY STATEMENTS

<b>P305 + P351 + P338</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.
P314	Get medical advice / attention if you feel unwell
P333 + P313	If skin irritation or rash occurs: get medical advice / attention
P363	Wash contaminated clothing before reuse
P402 + P404	Store in a dry place. Store in a closed packaging
P403 + P233	Store in a well ventilated place. Keep packaging tightly closed
P501	Dispose of contents / packaging in accordance with local / regional / national/ international regulations

#### CLASSIFICATION SYSTEM : NFPA RATINGS (scale 0- 4)



HEALTH =1

FIRE = 1

REACTIVITY = 0

#### HMIS RATINGS (scale 0 – 4)

HEALTH 1

FIRE 1

REACTIVITY 0

HEALTH = 1

FIRE = 1

REACTIVITY = 0

#### Other Hazards

Dispose of waste and residues in accordance with local authority requirements.  
After prolonged contact with highly porous materials, this product may spontaneously combust

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### CHEMICAL CHARACTERISATION: SUBSTANCE

CAS number 8002-26-4

CAS number description Distilled tall oil

EC number 232-304-6

#### Additional information

This product is not classified as hazardous under OSHA regulations, however, this SDS contains valuable information important to the safe handling and proper use of the product.

This SDS should be retained and available for employees and other users / handlers of this product. This product is shipped and delivered as an ambient temperature liquid.

(continues on page 4)

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

(continuation from page 3)

<b>Additional information</b>	If this product is heated or used at temperatures sufficient to produce smoke or fumes, refer to SDS Section 8, Exposure controls / Personal Protection
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### 4. FIRST-AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES

<b>After inhalation</b>	Remove to fresh air. Get medical attention. Get immediate medical attention if symptoms develop or persist. See Note to Medical Doctor below.
<b>After skin contact</b>	Wash off with soap water. Get immediate medical attention if irritation develops or persist. See Note to Medical Doctor below.
<b>After eye contact</b>	<b>HOT LIQUID product:</b> Cool burns with plenty of low pressure water. Get immediate medical attention.  <b>LIQUID product at ambient temperature:</b> Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low pressure water for at least 15 minutes. Get medial attention if irritation persists.
<b>After swallowing</b>	Not an ingestion hazard under anticipated conditions of use. <b>For accidental ingestion:</b> DO NOT induce vomiting. Get immediate medical attention.

### 4. FIRST-AID MEASURES

#### INFORMATION FOR MEDICAL DOCTOR

<b>PRODUCT</b>	This product contains fatty acids and lesser amount of rosin or a rosin derivative. Rosin and some of its derivatives have been reported to cause an allergic skin reaction (sensitisation) in susceptible individuals after repeated or prolonged skin contact. Smoke or fumes generated by heating product may lead to respiratory sensitisation (asthma) in susceptible individuals.
<b>Most important symptoms and effects, both acute and delayed</b>	No further relevant information available
<b>Indication of any immediate medical attention and special treatment needed</b>	No further relevant information available.

### 5. FIRE FIGHTING MEASURES

#### Extinguishing media

<b>Suitable extinguishing agents</b>	Water spray, dry chemical, foam, carbon dioxide or clean extinguishing agents may be used on fires involving this product
<b>Special hazards arising from the substance or mixture</b>	If heated to combustion, the following substances may be formed: Carbon monoxide (CO); Carbon Dioxide (CO <sub>2</sub> ); Carboxylic acids; Smoke  (continues on page 5)

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### Advise for fire-fighters

**Protective equipment** Wear self-contained breathing apparatus pressure-demand. MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

Apply water to **HOT LIQUID** product, fires from a safe, protected location to avoid body contact with hot rosin.

Cool packaging with water to prevent rupture.

### Reference to other sections

See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment  
See Section 13 for disposal information

## 7. HANDLING AND STORAGE

### Precautions for safe handling

For **HOT LIQUID product**: Use personal protective equipment as indicated in Section 8: Exposure Controls / Personal Protection

### Information about protection against explosions and fires

No special measures required

### Conditions for safe storage, including any incompatibilities

### Requirements to be met by storerooms and receptacles

Store in cool, dry area

Keep container closed when not in use

### Information about storage in one common storage facility

Not required

### Further information about storage conditions

None

### Specific end use(s)

No further information available  
  
(continues on page 6)

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see Section 8 of the SDS

### Environmental precautions

Do not allow to enter sewers / surface or ground water

### Methods and material for containment and cleaning up

For small spills: Add absorbent, sweep up, and dispose properly  
For large spills: Dike to contain and pump into drums for use or disposal

In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices  
Absorb with liquid binding material (sand, diatomite, vermiculite, Universal binders)

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Additional information about design of technical systems</b>	<p>Eyewash fountains and safety showers should be easily accessible.</p> <p>If user operations generate fumes: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.</p> <p>Discharge from the ventilation system should comply with applicable air pollution control regulations.</p> <p>Eliminate ignition sources and prevent build up of static electrical charges.</p> <p>Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.</p> <p>Keep area clean. Product will burn</p>
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#### Occupational exposure limits

<b>Components with limit values that require monitoring at the workplace</b>	<p>US-OSHA</p> <p>Tall oil fatty acids (8002-26-4)</p> <p>Type : TWA Value:5 mg/M<sup>3</sup></p> <p>Form: Oil Mist; Respirable</p>
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<b>Components with limit values that require monitoring at the workplace</b>	<p>ACGIH</p> <p>Tall oil fatty acids (8002-26-4)</p> <p>Type : STEL Value:10 mg/M<sup>3</sup></p> <p>Form: Oil Mist; Respirable</p> <p>Type : TWA Value:5 mg/M<sup>3</sup></p> <p>Form: Oil Mist; Respirable</p>
<b>Breathing equipment</b>	<p>Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, subpart 1 (29 CFR 1910.134) and manufacturer's recommendations</p>
<b>Protection of hands</b>	<p>Impervious gloves</p> <p>The glove material has to be impermeable and resistant to the product / the substance / the preparation.</p> <p>Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation</p>
<b>Material of gloves</b>	<p>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer</p>
<b>Penetration time of glove material</b>	<p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>
<b>Eye protection</b>	<p>Safety glasses</p> <p>(continues on page 7)</p>

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<b>Body protection</b>	Appropriate protective clothing Personnel exposed to HOT LIQUID material should wear protective clothing that provides protection against thermal burns.
<b>Body protection</b>	Required Protective Equipment: 1, Long-sleeved protective shirt, long pants and work shoes; 2, Hard hat and face shield; 3, Long-cuff gloves extending beyond wrist; 4, Lined rain suit with protective hood or shoulder shroud or 5, Full aluminized or thermal suit with hood.
	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties :

##### General information

<b>Appearance Form</b>	liquid at ambient temperatures
<b>Appearance colour</b>	Yellow to amber
<b>Odour</b>	Mild
<b>Specific gravity</b>	0.93 g/ml @20 °C
<b>Vapour density</b>	Heavier than air
<b>Flash Point</b>	> 200 (°C) (Closed cup)
<b>Danger of explosion</b>	Product does not present an explosive hazard
<b>Bulk density</b>	Not determined
<b>Solubility in / Miscibility with water</b>	0.04 mg/L at 20°C
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Other information</b>	No further relevant information available

### 10. STABILITY AND REACTIVITY

#### Reactivity and Chemical Stability

<b>Thermal decomposition / conditions to be avoided</b>	Stable under recommended handling and storage conditions
<b>Possibility of hazardous reactions</b>	Not anticipated under normal or recommended handling and storage
<b>Conditions to avoid</b>	No further information available
<b>Incompatible materials</b>	None known
<b>Hazardous decomposition products</b>	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion

### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity

LD/LC50 values that are relevant for classification

#### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful
<b>Skin contact</b>	No adverse effects due to skin contact are expected May cause temporary irritation (continues on page 8)

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### 11. TOXICOLOGICAL INFORMATION

<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation Similar products test data: No eye irritation Results: Negative Species : New Zealand white rabbit Organ: Eye Observation Period: 7 days OECD: 405
<b>Respiratory or skin sensitization</b>	No data available on respiratory sensitization. This product is not expected to cause skin sensitization
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
<b>Additional toxicological information</b> IARC (International Agency for Research on Cancer: Substance is not listed	Carcinogenic categories  Substance is not listed
<b>NTP (National Toxicology Program)</b>	Substance is not listed
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	Substance is not listed
<b>Chronic effects</b>	Prolonged inhalation may be harmful

### 12. ECOLOGICAL INFORMATION

Toxicity	
<b>Aquatic toxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Data on similar products	
<b>Aquatic</b>	>2000 mg/L, 72 hr growth rate; OECD 201
<b>EL50 Green algae (Desmodesmus subspicatus)</b>	
<b>NOEL Green algae (Desmodesmus subspicatus)</b>	300mg/L, 72 hr OECD 201
<b>Aquatic EL50 Daphnia</b>	5000 –10000 mg/l, 48 hr OECD 202
<b>NOEL Daphnia</b>	5000 mg/l, 48 hr OECD 202
<b>Aquatic Fish LL50</b>	>100 mg/l, 96 hr OECD 203
<b>NOEL</b>	100 mg/l, 96 OECD 203
<b>Persistence and degradability</b>	The product is biodegradable
<b>Biodegradability Percent degradation (aerobic biodegradation) Tall oil fatty acids</b>	73.2% Manometric respirometry test, OECD 301F Result: Readily Biodegradable Species: Activated sewage sludge Test duration: 28 days (continues on page 9)



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### 12. ECOLOGICAL INFORMATION

#### Behaviour in environmental systems

<b>Bioaccumulative potential</b>	No further relevant information available
<b>Mobility in soil</b>	No further relevant information available
<b>General Notes</b>	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
<b>Other adverse effects</b>	No other adverse environmental effects are expected from this component.

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. TRANSPORTATION INFORMATION

<b>UN-Number</b> DOT, ADR, DAN, IMDG, IATA	Void
<b>UN proper shipping name</b> DOT, ADR, ADN, IMDG, IATA	Void
<b>Transport hazard class(es)</b> DOT, ADR, ADN, IMDG, IATA	Void
<b>Packaging group</b> DOT, ADR, IMDG, IATA	Void
<b>Environmental hazards:</b> Marine pollutant	No
<b>Special precautions for user</b>	Not applicable
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
<b>UN "Model Regulation":</b>	-


### 15. REGULATORY INFORMATION

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

<b>SARA</b> Section 302 (extremely hazardous substances)	Substance is not listed
<b>SARA 304 Emergency release notification</b>	Not regulated
<b>SARA 311/312 Hazardous chemical</b>	No
<b>SARA 313 (TRI reporting)</b>	Not regulated
<b>TSCA (Toxic Substances Control Act)</b>	Substance is listed
<b>Proposition 65</b> Chemicals known to cause cancer	Substance not listed
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed
<b>Chemicals known to cause reproductive toxicity for females</b>	Substance is not listed
<b>Chemicals known to cause reproductive toxicity for males</b>	Substance is not listed
<b>Chemicals known to cause developmental toxicity</b>	Substance is not listed (continues on page 10)

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<b>Carcinogenic categories EPA (Environmental Protection Agency)</b>	Substance is not listed						
<b>TLV (Threshold Limit Value established by ACGIH)</b>	Substance is not listed						
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	Substance is not listed						
<b>Canadian Domestic Substances List (DSL)</b>	Substance is not listed						
<b>GHS label elements</b>	HEALTH = 1  FIRE = 1  REACTIVITY = 0						
							
CLASSIFICATION SYSTEM : NFPA RATINGS (scale 0- 4)							
<table border="1" style="width: 100%;"> <tr> <td style="background-color: #0056b3; color: white;">HEALTH</td> <td style="text-align: right; color: white;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FIRE</td> <td style="text-align: right; color: white;">1</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">REACTIVITY</td> <td style="text-align: right; color: black;">0</td> </tr> </table>	HEALTH	1	FIRE	1	REACTIVITY	0	HEALTH = 1  FIRE = 1  REACTIVITY = 0
HEALTH	1						
FIRE	1						
REACTIVITY	0						
<b>Signal word</b>	Warning						
<b>Hazard statements</b>	Void						
<b>PRECAUTIONARY STATEMENTS</b>							
<b>P202</b>	Do not handle until all safety precautions have been read and understood						

<b>P210</b>	Keep away from heat / sparks / open flames / hot surfaces – NO SMOKING
<b>P234</b>	Keep only in original packaging
<b>P261</b>	Avoid breathing fume/ gas/mist / vapours/ spray
<b>P262</b>	Do not get in eyes, on skin, or on clothing
<b>P264</b>	Wash thoroughly after handling
<b>P270</b>	Do not eat, drink or smoke when using this product
<b>P280</b>	Wear protective gloves / eye protection
<b>P284</b>	In case of inadequate ventilation wear respiratory protection
<b>P 301 + P312</b>	If swallowed: call a doctor if you feel unwell
<b>P301 + P330 + P331</b>	If swallowed: Rinse mouth. DO NOT induce vomiting
<b>P302 + P 352</b>	If on skin: Wash with plenty of soap and water
<b>P304 + P312</b>	IF INHALED: Call a doctor if you feel unwell (continues on page 11)

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## Oleotall R20-5 - Customized distilled tall oil

### 15. REGULATORY INFORMATION

**P304 + P341**

If inhaled: if breathing is difficult, remove person to fresh air and keep comfortable for breathing

**P305 + P351 + P338**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

**P314**

Get medical advice / attention if you feel unwell

**P333 + P313**

If skin irritation or rash occurs: get medical advice / attention

**P363**

Wash contaminated clothing before reuse

**P402 + P404**

Store in a dry place. Store in a closed packaging

**P403 + P233**

Store in a well ventilated place. Keep packaging tightly closed

**P501**

Dispose of contents / packaging in accordance with local / regional / national/ international regulations

**Chemical safety assessment**

A chemical safety assessment has not been carried out

### 16. OTHER INFORMATION

**DISCLAIMER:**

**To the best of our knowledge of this substance and on current EC and international regulations, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries or agents assumes liability whatsoever for the accuracy or completeness of the information contained herein.**

**Date of preparation:**

25 August 2015

**Date of previous issue:**

None

**Version:**

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**Contact**

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**Department issuing SDS**Technical Department  
(Industrial Oleochemical  
Products (IOP))