# Material Safety Datasheet

## Company Details

<table>
<thead>
<tr>
<th>Name</th>
<th>PROTEA CHEMICALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>1 Berrange Road</td>
</tr>
<tr>
<td></td>
<td>Wadeville</td>
</tr>
<tr>
<td></td>
<td>Germiston 1422</td>
</tr>
<tr>
<td>Tel</td>
<td>011 821 3300</td>
</tr>
<tr>
<td>Fax</td>
<td>011 827 4612</td>
</tr>
<tr>
<td>Emergency Tel</td>
<td>0800 172 743</td>
</tr>
</tbody>
</table>

## 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Trade / Commercial Name</th>
<th>Sodium Isopropyl Xanthate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Sodium Isopropyl Xanthate</td>
</tr>
<tr>
<td>Formula</td>
<td>C3H7OCS2Na</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>011 Sodium compounds</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Sodium propyl xanthate (non-specific name)</td>
</tr>
<tr>
<td>Un No</td>
<td>3342</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>2(Z)</td>
</tr>
<tr>
<td>ERG No</td>
<td>135</td>
</tr>
<tr>
<td>EAC</td>
<td>37</td>
</tr>
</tbody>
</table>

## 2. Hazards Identification

Some may burn but none ignite readily. Some may polymerize (P) explosively when heated or involved in a fire. Containers may explode when heated. Some may be transported hot. Inhalation of material may be harmful. Contact may cause burns to skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control may cause pollution.

## 3. Composition

| Hazardous Components | sodium isopropylxanthate |

## 4. First Aid Measures

**First Aid Skin**

Immediately remove contaminated clothing, including shoes. Flush body with plenty of water for at least 15 minutes. Have victim lie down and keep warm.

**First Aid Eyes**

Flush eyes with water for 15 minutes. Hold eyelids open while washing.

**First Aid Ingested**

Not applicable.

**First Aid Inhalation**

IMMEDIATELY remove to fresh air. If not breathing give artificial respiration. If breathing of victim is difficult administer oxygen for a maximum period of one hour.

## 5. Fire Fighting Measures

Small Fires: Dry chemical, CO2, water spray or regular foam. Large Fires: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Dike fire-control water for later disposal. Fire involving Tanks: Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from the ends of tanks. Isolate spill or leak area immediately for at least 10 to 25 metres (30 to 80 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. If ROAD OR RAIL TANKER is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all directions;
also, consider initial evacuation for 800 metres (1/2 mile) in all directions.

6. Accidental Release Measures

Full protective clothing including breathing apparatus
Contain (avoid spillage from entering drains or water courses)
PRECAUTIONS:
Restrict access to area.
Provide adequate protective equipment and ventilation.
Remove sources of heat and flame.
Notify occupational and environmental authorities.
SPILL OR LEAK:
Do not touch or walk through spilled material.
Stop leak if you can do it without risk.
Small Dry Spills
With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
Small Spills
Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
Large Spills
Dike far ahead of liquid spill for later disposal.
Cover powder spill with plastic sheet or tarp to minimize spreading.
Prevent entry into waterways, sewers, basements or confined areas.

7. Handling And Storage

Storage in the same room or space with EXPLOSIVES is prohibited.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits
No exposure limits established.

Controls
The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.
The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.
Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.
Supply sufficient replacement air to make up for air removed.
Have a safety shower/eye wash fountain readily available in the immediate work area

Personal Protection
If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection.
Have appropriate equipment available for use in emergencies.

9. Physical & Chemical Properties

Yellow amorphous solid with a disagreeable odour
MOLECULAR WEIGH : 158.21
MELTING POINT : Between 150 and 250 deg C depending upon moisture content
SOLUBILITY IN WATER : Very soluble (about 300 g/L at 20 deg C) (2)

10. Stability And Reactivity

Conditions to Avoid
Stable. Moisture and heat may result in spontaneous combustion. Solids and solutions tend to release carbon disulfide which may accumulate.

Incompatible Materials
ACIDS, STRONG OXIDIZING AGENTS

Other
None.

11. Toxicological Information
Inhalation of material may be harmful. Contact may cause burns to skin and eyes.

### 12. Ecological Information

No data available.

### 13. Disposal Considerations

**Disposal Method Product**

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

**Disposal Method Packaging**

Disposal in accordance with local legal provisions.

### 14. Transport Information

<table>
<thead>
<tr>
<th>UN No</th>
<th>3342</th>
<th>Hazchem Code</th>
<th>2(Z)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERG No</td>
<td>135</td>
<td>EAC</td>
<td>37</td>
</tr>
<tr>
<td>IMDG-Shipping Name</td>
<td>sodium Isopropyl Xanthates</td>
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<tr>
<td>IMDG-Packaging Group</td>
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<tr>
<td>Marine Pollutant</td>
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<tr>
<td>Class</td>
<td>Class: 4.2 Spontaneously Combustible Group: III</td>
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<tr>
<td>Subsidiary Risks</td>
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</table>

### 15. Regulatory Information

| EEC Hazard Classification | 4.2 |
| Risk Phases | Harmful if swallowed |
| Safety Phases | Irritating to skin |
| Keep out of reach of children |
| Keep away from food, drink and animal feeding stuffs |
| National Legislation | Not regulated |

### 16. Other Information

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

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