

# Material Safety Data Sheet

Date of Issue: 23.09.02

Supersedes: All Previous

## 1. Identification of Preparation and Company

Product BRAKE CLEANER  
Use/description of product Liquid. Highly flammable.

Company Granville Oil & Chemicals Ltd  
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## 2. Composition & Information on Ingredients

Ingredient 1: HYDROCARBON SOLVENT MIXTURE 30-60%  
(Xn) R48/20: (N) R51/53: (Xn) R65:

Ingredient 2: PROPAN-2-OL 30-60%  
CAS: 67-63-0  
EINECS: 200-661-7  
(F) R11: (Xi) R36: (-)R67

## 3. Hazards Identification

Main hazards: Highly flammable. Harmful by inhalation. Harmful to aquatic organisms.  
Other hazards: In use, may form flammable/explosive vapour-air mixture.

## 4. First Aid Measures

Skin contact: There may be irritation and redness at the site of contact. Wash off with water, contaminated clothes should be laundered before reuse.

Eye contact: there may be irritation and redness. corneal burns may occur. Bathe the eye with running water for 15 minutes. Seek medical advice if symptoms persist.

Ingestion: Nausea and stomach pain may occur. There may be vomiting and diarrhoea. Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. Seek medical advice if symptoms persist.

The information contained in this leaflet is provided to enable the user to assess the product and should not be taken as a specification. All information provided is given good faith we can however not assume liability. It is up to the user to ensure that the information and the product is suitable for use intended.

**Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Remove casualty from exposure ensuring one's own safety whilst doing so. Remove to fresh air, seek medical attention if recovery is not rapid or complete

## 5. Fire Fighting Measures

Extinguishing media: Carbon dioxide. Alcohol resistant foam.

Exposure hazards: Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measures

Personal precautions: Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Mix with sand or vermiculite. Transfer to a suitable container. Wash the spillage site with large amounts of water.

## 7. Handling and Storage

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Smoking is forbidden.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Ensure lighting and electrical equipment are not a source of ignition.

## 8. Exposure Controls / Personal Protection

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: do not breathe vapour, or spray.

Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Avoid skin contact.

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## 9. Physical and Chemical Properties

State:	Liquid.
Colour:	Colourless.
Odour:	Barely perceptible odour.
Solubility in water: Also soluble in:	Insoluble. Most organic solvents.
Flash point °C:	0
Relative density:	0.74

## 10. Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Sources of ignition. Flames.
Materials to avoid:	Oxidising agents.
Haz. decomp. products:	In combustion emits toxic fumes of carbon dioxide and carbon monoxide.

## 11 Toxicological Information

Ingredients 2:	PROPAN-2-OL. ORL RAT LD50 5045mg/kg.
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## 12 Ecological Information

Mobility:	Volatile.
Persistence and degradability:	Biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.
Other adverse effects:	Negligible ecotoxicity.

## 13 Disposal Considerations

Waste disposal:	Transfer to waste solvent drum for collection by specialist disposal company.
Disposal of packaging	dispose of as normal industrial waste.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

### ADR/RID

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UN no: 1993  
ADR Class: 3  
Labelling: Flammable  
shipping name: Flammable Liquid NOS.  
IMDG/IMO  
IATA/ICAO

## 15 Regulatory Information

Hazard symbols: Highly flammable.  
Harmful.  
Dangerous for the environment.

Risk phrases: R11: Highly flammable.  
R20: Harmful by inhalation.  
R52; harmful to aquatic organisms.

Safety phrases: S1/2: Keep locked up and out of the reach of children.  
S16: Keep away from sources of ignition – No smoking.  
S36: Wear suitable protective clothing.  
S23: Do not breathe vapour or spray.  
S29/56: do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
S57: Use appropriate container to avoid environmental contamination.

Note: applicable to the existence of additional and local regulations or provisions. The regulatory information given above only indicates the principal regulations, specifically product described in the safety data sheet. The user's attention is drawn to the possible provisions which complete these regulations. Refer to all applicable national, international regulations or provisions.

## 16 Other Information

Risk phrases used in s.2: R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R11: Highly flammable.  
R36: Irritating to eyes.  
R67: Vapours may cause drowsiness and dizziness.

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Legal disclaimer:  
shall be

The above information is believed to be correct but does not purport to be all inclusive and used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.