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|------------------------|--------------------------|-------------------------|
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| <b>Product code: *</b> | <b>Edition: 1</b>        | <b>Date: 08/09/2004</b> |

### 1. Identification of the substance/preparation and company

|                       |                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name:         | PAR COOL PG 50/50                                                                                                                                            |
| Product type:         | Antifreeze                                                                                                                                                   |
| Supplier:             | Atlas Copco Airpower N.V. – Portable Air Division                                                                                                            |
| Address:              | Ingberthoeveweg 7, 2630 Aartselaar - BELGIUM                                                                                                                 |
| Product safety guide: | coolants                                                                                                                                                     |
| Emergency contact:    | <b>Please contact the nearest Atlas Copco Customer Centre or for urgent matters the Medical Service of Atlas Copco Airpower in Belgium (+32 3 870 21 05)</b> |

### 2. Composition and information on ingredients

| <u>Name</u>                 | <u>% Wt</u> | <u>CAS No.</u> | <u>EC No.</u> |
|-----------------------------|-------------|----------------|---------------|
| 1,2-propanediol             | 45 - 54.99  | 57-55-6        | 200-338-0     |
| Water and additives         | 45 - 54.99  | CBI            | CBI           |
| Aliphatic acid, sodium salt | 5           | CBI            | CBI           |

Xn R 63 Possible risk of harm to the unborn child.

### 3. Hazards Identification

|                                               |                                                                                                                                                                                           |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warning statement                             | None considered necessary                                                                                                                                                                 |
| <u>Acute effects of exposure to man</u>       |                                                                                                                                                                                           |
| Inhalation                                    | Believed to be minimally irritating                                                                                                                                                       |
| Skin contact                                  | Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. |
| Eye contact                                   | May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.                                                                                        |
| Ingestion                                     | No adverse effects expected. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhoea may occur.                                                         |
| <u>Chronic effects of exposure to man</u>     |                                                                                                                                                                                           |
| Medical conditions aggravated by exposure     | There is no evidence that this product aggravates an existing medical condition.                                                                                                          |
| <u>Effects of exposure to the environment</u> | Believed not to be toxic to aquatic species.                                                                                                                                              |

### 4. First Aid Measures

|                          |                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Route of exposure</u> |                                                                                                                                                                                                   |
| Inhalation               | If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.                                             |
| Skin contact             | Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.                                                                       |
| Eye contact              | Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.                                                                                            |
| Ingestion                | If patient is conscious and can swallow, give two glasses of water (500ml) Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person. |
| Other recommendations    | None                                                                                                                                                                                              |

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## 5. Fire Fighting Measures

|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                                                                     | Use water fog, dry powder, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water fog to disperse the vapours and to provide protection for persons attempting to stop the leak.                                                                                                                         |
| Extinguishing media which must not be used for safety reasons                                                    | Water jet.                                                                                                                                                                                                                                                                                                                                                                                            |
| Special exposure hazards arising from the substance or preparation itself, combusting products, resulting gases. | None                                                                                                                                                                                                                                                                                                                                                                                                  |
| Special protective equipment for fire-fighters                                                                   | The nature of special protective equipment required will depend upon the size of the fire, the degree of confinement of the fire and the natural ventilation available.<br>Fire-resistant clothing and self-contained breathing apparatus is recommended for fires in confined spaces and poorly ventilated areas. Full fireproof clothing is recommended for any large fires involving this product. |

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## 6. Accidental Release Measures

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|-----------------------------------------------------|----------------------------------------------------------------------------------|
| Procedures in case of accidental release or leakage | Contain spill if possible. Wipe up or absorb on suitable material and shovel up. |
|-----------------------------------------------------|----------------------------------------------------------------------------------|

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## 7. Handling and storage

|          |                                                                                                         |
|----------|---------------------------------------------------------------------------------------------------------|
| Handling | Periods of exposure to high temperatures should be minimized.<br>Water contamination should be avoided. |
| Storage  | Transport, handle and store in accordance with applicable local regulations.                            |

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## 8. Exposure Controls/Personal Protection

|                                |                                                                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection         | Airborne concentrations should be kept to lowest levels possible. If vapour, mist or dust is generated, use approved respirator as appropriate.<br>Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. |
| Hand and skin protection       | Avoid skin contact. When contamination has occurred, workers should wash exposed skin with soap and water.<br>Soiled clothing should be laundered or dry-cleaned.                                                                                                                            |
| Eye protection                 | Chemical type goggles or face shield recommended to prevent eye contact.                                                                                                                                                                                                                     |
| Exposure limit for the product | None established for product.                                                                                                                                                                                                                                                                |

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## 9. Physical and Chemical Properties

|                       |                                   |
|-----------------------|-----------------------------------|
| Appearance            | Light red liquid                  |
| Odour                 | Mild odour                        |
| Flash point (COC), °C | 112 min                           |
| Relative density      | 1.035 at 20°C                     |
| Viscosity             | 6.46 mm <sup>2</sup> /s at 20 °C. |
| pH                    | 8.9 at 100%                       |
| Solubility in water:  | 100%                              |

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## 10. Stability/reactivity

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| Conditions to avoid              | Sources of ignition such as naked flames, sparks, hot surfaces. |
| Materials to avoid               | Avoid contact with strong oxidising agents.                     |
| Hazardous decomposition products | Oxides of carbon, aldehydes and ketones.                        |

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## 11. Toxicological information

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|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Acute</u>   |                                                                                                                                                        |
| Inhalation     | High concentrations of vapours or mist are likely to be irritating to the respiratory tract and may cause nausea, dizziness, headaches and drowsiness. |
| Skin contact   | Slightly irritating to the skin.                                                                                                                       |
| Eye contact    | Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.                                                            |
| Ingestion      | No adverse effects expected. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhoea may occur.                      |
| <u>Chronic</u> | There is no evidence that this product aggravates an existing medical condition.                                                                       |

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## 12. Ecological information

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| Mobility                      | Not determined.                                                                                          |
| Persistence and degradability | According to EC criteria : expected to be readily biodegradable.                                         |
| Potential to bioaccumulate    | This product is estimated to have a low potential to bioconcentrate.                                     |
| Aquatic toxicity              | Believed not to be toxic to aquatic species.                                                             |
| Remarks                       | Releases of small quantities are unlikely to affect adversely the functioning of water treatment plants. |

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## 13. Disposal Considerations

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| Disposal | Dispose in accordance with local laws and regulations governing disposal of chemicals. |
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## 14. Transport Information

Not regulated.

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## 15. Regulatory Information

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|------------------------|------------------------------------------------------|
| Labelling information  | Not classified according to EC Directive 88/379/EEC. |
| Additional information | Refer to any national measures that may be relevant. |

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## 16. Other Information

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|---------------|-----------------------------------------------|
| MSDS history: | Edition number 01<br>First issued: 08/07/2002 |
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