

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

| | | |
|-----|---|---|
| 1.1 | Product identifier | Trade name: CURA Solar Heat Transfer Fluid 5L Part Number: 20930 |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | Domestic heating water treatment |
| 1.3 | Details of the supplier of the safety data sheet | BES Ltd Unit 12 Junction 6 Electric Avenue Birmingham B6 7JJ Tel 0121 322 6400 Email lwilkins@bes.ltd.uk |
| 1.4 | Emergency telephone number | 0845 880 60 50 Only available during office hours |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | | |
|-------|--|---|
| 2.1.1 | Classification according to regulation (EC) No 1272/2008 (CLP) | NC Not Classified |
| 2.1.2 | Classification according to Directive 1995/45/EC | NC Not Classified |
| 2.1.3 | Additional information | This product does not meet the criteria for classification in any hazard class according to regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. |

2.2 Label elements

2.2.1 According to regulation (EC) 1272/2008 & 453/2010 (CLP)

| | |
|--------------------------|--|
| Hazard pictograms | None |
| Signal words | None |
| Hazard statements | NC Not Classified |
| Precautionary statements | P102 Keep out of reach of children P501 Dispose of contents/container in accordance with national regulations |

2.2.3 According to Article 25 of CLP

| | |
|---------------------------------------|---|
| Supplemental information on the label | EUH210 Safety data sheet available on request |
|---------------------------------------|---|

SECTION 3: Composition/information on ingredients

Product definition: Mixture

3.1 Substance

| Name | Index number in CLP Annex VI | Weight % |
|------|------------------------------|----------|
|------|------------------------------|----------|

3.2 Mixture

| CAS no | EC No | %w/w | Name | (EC) No1272/2008 classification |
|---------|-----------|------|--------------------|---------------------------------|
| 57-55-6 | 200-338-0 | 45 | Propane-1,2-diol** | NC Not Classified |

** Substance with National exposure limits – see section 8

Additional information: For full text of H-statements: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|------------------------------------|--|
| General notes | Low toxicity, not generally irritating to the skin, however as a general precaution avoid prolonged contact with the product |
| Following inhalation | Remove to fresh air. Treat any irritations symptomatically. If necessary consult a doctor |
| Following skin contact | Wash off immediately with plenty of soap and water |
| Following eye contact | Irrigate with cool water for at least 15 minutes |
| Following ingestion | DO NOT INDUCE VOMITING. Rinse with copious amounts of water. Drink 2 glasses of water. Seek medical attention |
| Self-protection of the first aider | Wear protective clothing as detailed in section 8. |

4.2 Most important symptoms and effects, both acute and delayed

May cause eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

If you feel unwell seek medical advice immediately

SECTION 5: Fire-fighting measures

| | | |
|-----|---|--|
| 5.1 | Extinguishing media | This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. |
| 5.2 | Special hazards arising from the substance or mixture | Oxides of carbon. |
| 5.3 | Advice for firefighters | Self contained breathing apparatus and full protective clothing must be worn in case of fire. |

SECTION 6: Accidental release measures

| | | |
|-----|---|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Wear protective clothing as detailed in section 8. |
| 6.2 | Environmental precautions | Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body. |
| 6.3 | Methods and material for containment and cleaning up | Absorb spillages into sand, earth or any suitable absorbent material. Wash spill area with soapy water. |
| 6.4 | Reference to other sections | Wear protective clothing as detailed in section 8. |

SECTION 7: Handling and storage

| | | |
|-----|--|--|
| 7.1 | Precautions for safe handling | Avoid spilling, skin and eye contact. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store in tightly closed original container in a dry, cool and well-ventilated place. Do not store above 40°C Freezing point -28°C |
| 7.3 | Specific end use(s) | The identified uses for this product are detailed in Section 1.2 |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Propane-1,2-diol



Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

TWA = Time Weighted Average

WEL = Workplace Exposure Limit

8.2 Exposure controls

| | | | |
|-------|----------------------------------|---|--|
| 8.2.1 | Appropriate engineering controls | Provide adequate ventilation. Avoid spilling, skin and eye contact. | |
| 8.2.2 | Personal protection |  Goggles giving complete protection to eyes (EN166) |  Protective gloves (nitrile rubber) (EN374) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--------------------|-------------------------------|
| Appearance | Liquid |
| Colour | Pink/Red Fluorescent |
| Odour | Slight |
| pH | 10 - 12 |
| Relative density | 1.04 |
| Conductivity | 70µS/cm |
| Solubility (water) | Soluble in cold and hot water |

9.2 Other information

No data

SECTION 10: Stability and reactivity

| | | |
|------|------------------------------------|--|
| 10.1 | Reactivity | No information available |
| 10.2 | Chemical stability | Stable under normal conditions of use and storage |
| 10.3 | Possibility of hazardous reactions | No information available |
| 10.4 | Conditions to avoid | Avoid excessive heat |
| 10.5 | Incompatible materials | None known |
| 10.6 | Hazardous decomposition products | May give off toxic fumes in a fire. Carbon monoxide. Carbon dioxide. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | |
|--------------|---------------------------------|
| Ingestion | May cause discomfort |
| Inhalation | No information available |
| Skin contact | May irritate the skin |
| Eye contact | May cause irritation to the eye |

SECTION 12: Ecological information

| | | |
|------|-----------------------------------|--|
| 12.1 | Toxicity | Not considered toxic to fish |
| 12.2 | Persistence and degradability | Part of the mixture is biodegradable |
| 12.3 | Bioaccumulative potential | No information available |
| 12.4 | Mobility in soil | No information available |
| 12.5 | Result of PBT and vPvB assessment | This mixture does not contain any substances that are assessed to be a PBT or a vPvB |
| 12.6 | Other adverse effects | No information available |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority regulations

13.2 European waste catalogue

Disposal of product: European Waste Catalogue 16 03 06
Disposal of packaging: European Waste Catalogue 15 01 02

Taking into consideration the local authority regulations, the spent container may be disposed of with household refuse providing it has been rinsed.

Disposal of packaging as municipal waste (having been rinsed): European Waste Catalogue 20 01 39

SECTION 14: Transport information

| | | |
|------|---|--------------------------------------|
| 14.1 | UN number | Not classified |
| 14.2 | UN proper shipping name | None |
| 14.3 | Transport hazard classes | None |
| 14.4 | Packing group | None |
| 14.5 | Environmental hazards | Not classified as a marine pollutant |
| 14.6 | Special precautions for user | None |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |

SECTION 15: Regulatory information

| | | |
|------|---|--|
| 15.1 | Safety, health and environmental regulations/ legislation specific for the substance or mixture | <p>National Regulations: Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.</p> <p>EU Regulations: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</p> <p>None of the components listed in Annex XIV (SVHC) are present in the mixture</p> |
| 15.2 | Chemical Safety Assessment | No chemical safety analysis has been carried out for this mixture by the supplier |

SECTION 16: Other information

Indication of changes: removal of directive 67/548/EEC & 1999/45/EC

Revised ANNEX II, from 1ST December 2010

Abbreviations and acronyms

| | |
|--------|--|
| ACLG | Approved Classification and Labelling Guide |
| CAS No | Chemical Abstracts Service Number |
| CLP | Classification Labelling Packaging Regulations (EC) No 1272/2008 |
| EC No | EINECS Number |
| EINECS | European Inventory of Existing Commercial Substances |
| LTEL | Long Term Exposure Limit |
| NC | Not Classified |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations |
| SDS | Safety Data Sheet |
| SVHC | Substances of Very High Concern |
| TWA | Time Weighted Average |
| UN | United Nations |
| vPvB | Very Persistent and Very Bioaccumulative |

Relevant H-statements for pure substances listed in section 3

Hazard statements in full

| | |
|--|--|
| | |
|--|--|

Source of key data used to compile SDS:
Raw material suppliers' safety data sheets
Approved Classification and Labelling Guide (Sixth edition)

This information is based on the present state of our knowledge.