

## 1. Product Identification




|              |                      |   |
|--------------|----------------------|---|
| Product Code | QF380 Flux           |   |
| Trade Name   | None                 |   |
| Manufacturer | Qualitek-Europe Ltd. | Unit 9 Apex Court, Bassendale Road,<br>Bromborough, Wirral. CH62 3RE<br>Tel 44(0)151-334-0888 Fax 44(0)151-346-1408 |

Supplier / Importer

24 hour Emergency Contact (UK)

Tel 0151-334-0888

## 2. Composition and information on Components

| Hazardous Components   |   | Content         | EC No                  | CAS                     | Hazard                                 | Risk              |
|------------------------|---|-----------------|------------------------|-------------------------|--|-------------------|
| Propan-2-OL            |    | 78 - 88%        | 200-661-7              | 67-63-0                 | F: Highly Flammable                    | R11               |
| Multisol H573<br>Rosin |    | 12 - 22%<br><4% | 265-150-3<br>232-475-7 | 64742-48-9<br>8050-09-7 | X <sub>n</sub> :Harmful<br>Xi Irritant | R65/R66<br>R42/43 |
| Remainder              |  |                 |                        |                         | Not classified                         |                   |

## 3. Hazard Identification

|                                       |  |
|---------------------------------------|--|
| Main Hazards                          | Highly Flammable<br>Irritating to eyes, respiratory system and skin  |
| Health Effects Inhalation - Ingestion | Inhalation of the fumes or ingestion may cause headache, nausea, muscular pain. Irritation of the eyes and nose may result from contact with soldering fumes.    |
| Chronic (Prolonged effects)           | Anaemia, insomnia, weakness, constipation, nausea and abdominal pain due to ingestion. Skin rash, damage of mucous membrane due to skin exposure and inhalation. |

## 4. First Aid Measures

|                        |   |
|------------------------|---|
| First Aid - Eyes       | Immediately flush the eyes with water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.   |
| First Aid - Skin       | Wash thoroughly with soap and water and remove all contaminated clothing as washing proceeds. Apply suitable lotion to prevent dryness. Seek medical attention. |
| First Aid - Inhalation | Remove person to fresh air and keep subject warm and at rest. Seek medical attention.   |
| First Aid - Ingestion  | Wash out mouth with water. Do not induce vomiting. Keep subject warm and at rest. Seek medical attention.   |

## 5. Fire Fighting Measures

|   |  |
|---|--|
| <b>Extinguishing media</b>                    | Use Carbon Dioxide, Dry chemical, Alcohol resistant foam. Beware of the possibility of re-ignition.  |
| <b>Special Hazards</b>                        | Dangerous when exposed to heat of flame. Containers may explode in heat of fire. Vapours can travel a considerable distance to source of ignition to cause flash-back. |
| <b>Protective Equipment for Fire Fighting</b> | Wear full protective clothing and use breathing apparatus.   |

## 6. Accidental Release Measures

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Wear appropriate protective clothing. Eliminate sources of ignition. Vapour is heavier than air and will collect in basements or depressions etc.. Avoid breathing vapour.  |
| <b>Environmental Precautions</b> | Try to prevent the product entering drains or water courses.  |
| <b>Spillages</b>                 | Small spillages can be flushed with large volumes of water. Larger spillages should be collected for disposal. Beware of vapour collecting to form explosive concentrations. Allow to evaporate if it is safe to do so or contain using absorbent material such as earth, sand or other inert material. |

## 7. Handling and Storage

|                 |  |
|-----------------|--|
| <b>Handling</b> | Use in well ventilated area. Avoid breathing in vapour, mist or resultant soldering fumes. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Larger containers (20l) are heavy. Take care when lifting and pouring. |
| <b>Storage</b>  | Storage area should be well ventilated, cool and dry. Store in original containers. Re package only if container becomes damaged. Store away from sources of heat or ignition.   |

## 8. Exposure Controls - Personal Protection

| Occupational Exposure Limits        | TLV   | OSHA PEL              | ACGIH TLV             |
|-------------------------------------|---|-----------------------|-----------------------|
| Propan-2-OL                         | 400ppm  | 400ppm                | 400ppm                |
| Multisol H573                       | 100ppm  | 100ppm                | 100ppm                |
| Rosin                               | 0.15mg/m <sup>3</sup>   | 0.15mg/m <sup>3</sup> | 0.15mg/m <sup>3</sup> |
| <b>Engineering Control Measures</b> | Ensure work area is well ventilated and equipment exhausted. If pouring is needed then this should be arranged so as not to expose the operator to unnecessary vapour levels. |                       |                       |
| <b>Respiratory Protection</b>       | Respiratory protection if there is a risk of exposure to high vapour levels.  |                       |                       |
| <b>Hand protection</b>              | Nitrile rubber gloves or PVC gloves should be used when handling or pouring   |                       |                       |
| <b>Eye Protection</b>               | Close fitting Chemical goggles should be worn when handling or pouring.   |                       |                       |
| <b>Skin Protection</b>              | Normal work wear but rubber apron if there is a danger of splashing or spillage.  |                       |                       |
| <b>Foot Protection</b>              | Wear protective boots or toe caps when handling drums.  |                       |                       |

## 9. Physical and Chemical Properties

|                            |                                     |                                   |
|----------------------------|-------------------------------------|-----------------------------------|
| Appearance                 | Nearly clear liquid with straw tint |                                   |
| Odour                      | Ethereal Odour                      |                                   |
| Boiling point              | 82 Deg C @ 760mm Hg                 |                                   |
| Melting point              | n/a                                 |                                   |
| Flash Point                | 12 Deg C                            |                                   |
| Auto Ignition Temperature  | 350 Deg C                           |                                   |
| Flammability limits in air | Lower : 2.5 %                       |                                   |
|                            | Upper : 12 %                        |                                   |
| Explosion Limits           | Lower : 2.5 %                       |                                   |
|                            | Upper : 12 %                        |                                   |
| Vapour pressure            | 33.0 mm Hg at 50 Deg C              |                                   |
| Vapour Density             | 2.07                                | (Air = 1)                         |
| Evaporation Rate           | <2.3                                | (BuAc = 1)                        |
| Specific Gravity           | 0.794 +/- 0.004                     | (H <sub>2</sub> O = 1 @ 25 Deg C) |
| Solubility                 | Partially soluble in water          |                                   |

## 10. Stability and Reactivity

|                                  |   |
|----------------------------------|---|
| Stability                        | Stable under normal conditions  |
| Conditions to avoid              | High temperature - sources of ignition                                    |
| Materials to avoid               | Strong oxidising agents   |
| Hazardous Decomposition Products | May release toxic vapours / gases such as Carbon Monoxide, Carbon Dioxide |

## 11. Toxicological Information

|                             |  |
|-----------------------------|--|
| Basis of Assessment         | Information given is based on product data   |
| Acute Toxicity - Oral       | LD50 > 2000 mg/kg  |
| Acute Toxicity - Dermal     | LD50 > 2000 mg/kg  |
| Acute Toxicity - Inhalation | LD50 > 5mg/L   |
| Eye Irritation              | Slight irritant  |
| Skin Irritation             | Slight Irritant  |
| Respiratory Irritation      | Irritant in animal studies   |
| Skin sensitisation          | May cause skin sensitisation   |
| (Sub) Chronic Toxicity      | Repeated exposure causes liver damage  |
| Human effects               | Repeated exposure can lead to allergic contact dermatitis. High exposure can cause drowsiness and dizziness. Can cause liver damage There may be other health risks but these will vary from person to person. |

## 12. Ecological Information

|                  |   |
|------------------|---|
| Mobility         | The product will readily dissolve in water                      |
| Degradability    | The product is readily Biodegradable                            |
| Bio-accumulation | Not expected to accumulate                                      |
| Ecotoxicity      | Poses a significant risk of oxygen depletion in aquatic systems |

## 13. Disposal

|            |   |
|------------|---|
| Product    | Incineration recommended. Material is classified as special waste under the COPA regulations 1980 and must be disposed of in accordance with those regulations.   |
| Containers | Leave labels in tact until containers have been thoroughly cleaned. Empty containers may contain hazardous residues and vapours. Dispose of containers with care. |

## 14. Transport Information

|   |                      |                      |
|---|----------------------|----------------------|
| <b>UN Number, Shipping name and Class</b> | 1993                 | Flammable Liquid NOS |
| <b>Proper Shipping Name</b>               | Contains Isopropanol |                      |
| <b>UN Class / Packing Group</b>           | 3 / II               |                      |
| <b>Packing Symbol</b>                     | Flammable Liquid     |                      |

|                         |       |
|-------------------------|-------|
| <b>Trim Card Number</b> | QF380 |
|-------------------------|-------|

## 15. Regulatory Information

### Labelling Information

#### Highly Flammable



#### Irritant



#### Environmental



### Risk Phrases

|           |   |
|-----------|---|
| R11       | :Highly Flammable   |
| R36/37/38 | :Irritating to eyes, respiratory system and skin          |
| R65       | Harmful may cause lung damage if swallowed                |
| R66       | Repeated exposure may cause skin dryness or cracking      |
| R42/43    | may cause sensitisation by inhalation and by skin contact |

### Safety Phrases

|     |   |
|-----|---|
| S7  | :Keep container tightly closed  |
| S16 | :Keep away from sources of ignition - No Smoking  |
| S24 | :Avoid contact with skin  |
| S23 | :Do not breath fumes or spray   |
| S26 | :In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.            |
| S62 | : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

### EC Annex 1 Classification

|                |                  |
|----------------|------------------|
| F:             | Highly Flammable |
| X <sub>i</sub> | Irritant         |

### Regulations / References

Refer to the requirements of all relevant local regulations. For the United Kingdom, see Control of Substances Hazardous to Health Regulations (COSHH), the Health and Safety at Work Act (HSWA) and the Carriage of Dangerous Goods by Road and Rail Regulations 1994.

## 16. Other Information

### Application

See technical data sheet for application information  
QF380 Flux