

SAFETY DATA SHEET

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REVISION DATE: 07/07/1999
REF: 2SUBAIPA
(NCK)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: NOTEBOOK KIT - HEAD CLEANING SOLVENT
Product code: 2SUBAIPA (NCK)
Supplier: AUTOMATION FACILITIES
H.K. Wentworth Ltd.,
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2. COMPOSITION/INFORMATION ON INGREDIENTS

| Identification of the preparation | General purpose solvent | | | |
|-----------------------------------|-------------------------|-----------|---|----------|
| Chemical Name | CAS-No | EC-No | Class | Weight % |
| ~PROPAN-2-OL | 67-63-0 | 200-746-9 | F; R11 (Sweden: V; R320/322, R313) | 100 |

3. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable
Specific hazards: Prolonged skin contact may defat the skin and produce dermatitis.
High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

4. FIRST AID MEASURES

General advice: Use only in well-ventilated areas
Inhalation: Move to fresh air. Consult a physician after significant exposure
Skin contact: Wash off with soap and plenty of water.
Eye contact: Flush eye(s) immediately with plenty of water. If eye irritation persists, consult a specialist
Ingestion: Immediately give large quantities of water to drink. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Extinguish with carbon dioxide, dry chemical, foam or waterspray
Extinguishing media which must not be used for safety reasons: Do not use water jet
Specific hazards: Cool containers / tanks with spray water.
Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Remove all sources of ignition. Wear suitable gloves and eye/face protection.

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| | |
|-----------------------------------|--|
| Environmental precautions: | Do not flush into surface water or sanitary sewer system. |
| Methods for cleaning up: | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. |

7. HANDLING AND STORAGE

| | |
|------------------|--|
| Handling: | Use only in well-ventilated areas. Do not breath vapours or spray mist. Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke. |
| Storage: | Keep in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---------------------------------------|--|
| Chemical Name: | National occupational exposure limits: |
| ~PROPAN-2-OL | HSC(EH40) |
| | Long term (8 hrs) = 400ppm / 999mgm ⁻³ |
| | Short term (15 min) = 500ppm / 1250mgm ⁻³ |
| Engineering measures: | Ensure adequate ventilation, especially in confined areas. |
| Personal protection equipment: | |
| - Respiratory protection: | not required under normal use |
| - Hand protection: | solvent-resistant gloves. |
| - Eye protection: | safety glasses |
| - Skin and body protection: | not required under normal use |
| Hygiene measures: | When using, do not eat, drink or smoke. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------|
| Form: | Liquid |
| Colour: | colourless |
| Odour: | characteristic |
| pH: | no data available |
| Boiling point/range: | 82 °C |
| Melting point/range: | -89 °C |
| Decomposition temperature: | no data available |
| Flash point: | 12 °C |
| Autoignition temperature: | 425 °C |
| Flammability (solid, gas): | Highly flammable |
| Explosion limits: | |
| - lower | 2.3 vol. % |
| - upper | 12 vol. % |
| Vapour pressure: | (20 °C) 44 hPa |
| Relative density: | (20 °C) >= 0.78 |
| Bulk density: | 785 kg/m ³ |
| Solubility: | |
| Water solubility | completely miscible (g/l) |
| - fat solubility | no data available |
| Partition coefficient (n-octanol/water) | <3 log P _{ow} |
| Viscosity: | (20 °C) 2.43 mPa.s |

Product name: **NOTEBOOK KIT - HEAD CLEANING****SOLVENT****(NCK)****10. STABILITY AND REACTIVITY**

| | |
|--|--|
| Stability: | Stable under recommended storage conditions |
| Conditions to avoid: | Caustic alkali liquids, n.o.s, oxidizing agents, aldehydes, ammonia. |
| Materials to avoid: | strong acids and oxidizing agents |
| Hazardous decomposition products: | None |

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------|---|
| Acute toxicity: | LD50/oral/rat = 5.05g/kg, LD50/dermal/rabbit = 16.4ml/kg |
| Local effects: | May cause skin irritation in susceptible persons |
| Sensitization: | May cause sensitization by skin contact |
| Long term toxicity: | Liver injury may occur |
| Chronic toxicity: | Effects of excessive exposures may include liver toxicity |

12. ECOLOGICAL INFORMATION

| | |
|---------------------------------------|-------------------------------------|
| Mobility: | |
| Persistence and degradability: | Not readily biodegradable. |
| Bioaccumulation: | None |
| Ecotoxicity effects: | LC50/96h/fathead minnows = 9600mg/l |

13. DISPOSAL CONSIDERATIONS

| | |
|---|---|
| Waste from residues / unused products: | Dispose of as special waste in compliance with the Control of Pollution (Special Waste) Regulations 1980. |
| Contaminated packaging: | Store containers and offer for recycling of material according to the Environmental Protection (Duty of Care) Regulations 1991. |

14. TRANSPORT INFORMATION

| | | | |
|------------------------------|---------------------------------|--------------------------|----------------|
| UN-No: | 1219 | Marine pollutant: | Not applicable |
| ADR/RID | | | |
| Class: | 3 | Item: | 3 (b) |
| | | HI/UN No: | 1219 |
| Proper shipping name: | Isopropanol (Isopropyl alcohol) | | |
| IMO | | | |
| Class: | 3.2 | IMDG Page: | 3244 |
| EmS: | 3-06 | MFAG: | 305 |
| Proper shipping name: | Isopropanol (Isopropyl alcohol) | | |
| ICAO | | | |
| Class: | 3 | UN/ID No: | 1219 |
| Proper shipping name | Isopropanol (Isopropyl alcohol) | | |

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 90/492/EEC

- Contains:
- Symbol(s):



F - Highly flammable

R-phrases: R11 - Highly flammable.

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S-phrase(s): S2 - Keep out of reach of children. - Keep container tightly closed in a cool, well-ventilated place S16 - Keep away from sources of ignition - No smoking. S33 - Take precautionary measures against static discharges.

16. OTHER INFORMATION

Revision number: 1
Further information: CN No. 38140090
Contact Name: Carolyn Booth
Department: Technical

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