

SILCOLAN PUMP SPRAY**7 HANDLING AND STORAGE**

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Container must be kept tightly closed. Use explosion proof electric equipment.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|-------------|-----|----------|------------|----------|------------|
| PROPAN-2-OL | WEL | 400 ppm | 999 mg/m3 | 500 ppm | 1250 mg/m3 |

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|---------------------------|-------------------------------|----------------------|
| APPEARANCE | Clear Liquid | RELATIVE DENSITY | .700-.800 @ 20 °c |
| COLOUR | Colourless to pale yellow | EVAPORATION RATE | >1 BuAc=1 |
| ODOUR | Rubbing alcohol. | FLASH POINT (°C) | <23 CC (Closed cup). |
| VOLATILITY DESCRIPTION | Volatile. | FLAMMABILITY LIMIT - UPPER(%) | 12 |
| SOLUBILITY | Soluble in water | | |
| BOILING POINT (°C) | 82-84 760 mm Hg | | |
| VAPOUR DENSITY (air=1) | >1 | | |
| VOLATILE BY VOL. (%) | 99 | | |
| FLAMMABILITY LIMIT - LOWER(%) | 2 | | |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong reducing agents.

MATERIALS TO AVOID

Strong oxidising substances.

SILCOLAN PUMP SPRAY

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

INHALATION. May cause irritation to the respiratory system. SKIN CONTACT. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. EYE CONTACT. May cause severe irritation to eyes. INGESTION. May cause stomach pain or vomiting.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not known.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



| | | | |
|----------------------|---------------------------------|------------------|-----------------------------|
| UK ROAD CLASS | 3 | | |
| PROPER SHIPPING NAME | ISOPROPANOL (ISOPROPYL ALCOHOL) | | |
| UN NO. ROAD | 1219 | UK ROAD PACK GR. | II |
| ADR CLASS NO. | 3 | ADR CLASS | Class 3: Flammable liquids. |
| ADR PACK GROUP | II | HAZARD No. (ADR) | 33 |
| ADR LABEL NO. | 3 | HAZCHEM CODE | 2YE |
| CEFIC TEC(R) NO. | 30GF1-I+II | RID CLASS NO. | 3 |
| RID PACK GROUP | II | UN NO. SEA | 1219 |
| IMDG CLASS | 3 | IMDG PAGE NO. | 3 |
| IMDG PACK GR. | II | EMS | F-E, S-D |
| MFAG | See Guide | MARINE POLLUTANT | No. |
| UN NO. AIR | 1219 | AIR CLASS | 3 |
| AIR PACK GR. | II | | |

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

RISK PHRASES

| | |
|-----|---|
| R67 | Vapours may cause drowsiness and dizziness. |
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |

SAFETY PHRASES

| | |
|-----|---|
| S16 | Keep away from sources of ignition - No smoking. |
| S25 | Avoid contact with eyes. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S51 | Use only in well-ventilated areas. |

SILCOLAN PUMP SPRAY

S3/9

Keep in a cool, well ventilated place.

UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Petroleum (Consolidation) Act, as amended 1984 SI 1244.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE

May 2007

RISK PHRASES IN FULL

| | |
|-----|---|
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| R36 | Irritating to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.