

Electronic Cleaning Solvent

Material Safety Data Sheet

Iso - Propyl Alcohol - IPA

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

Trade name Iso - Propyl Alcohol

Synonyms Isopropyl alcohol, Isopropanol, Isopropyl alcohol, Dimethyl carbinol

Use Solvents, raw material for cleaning agents and disinfectants, printing ink additive, raw material for plastics additives, Paint related material

Company Denber paints & coatings Israel ltd.

7 Brussel st. Sderot ISRAEL

Information (Product safety) Telephone: +972-89960794 **Fax:** +972-89960649

Europe, Israel, Africa, Americas, Middle East, Arabic African countries, Asia Pacific, China

Emergency telephone: +972-503551551

2. Composition/information on ingredients

propan-2-ol; isopropyl alcohol; isopropanol

Contents: 100.00 %W/W

CAS-No. 67-63-0 **Index-No.** 603-117-00-0 **EC-No.** 200-661-7

Symbol(s) F, Xi **R-phrase(s)** -R11 -R36 -R67

For the full text of the R phrases mentioned in this Section, see Section 16.

3. Hazards identification

Identification of the risks

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Particular risks to human beings and the environment

Highly flammable.

4. First aid measures

General advice When symptoms persist or in all cases of doubt seek medical advice.

Inhalation Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)

Extinguishing media which must not be used for safety reasons

No information available.

Specific hazards during fire fighting

Flash back possible over considerable distance.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

Further information Cool containers / tanks with water spray.

6. Accidental release measures

Personal precautions Keep people away from and upwind of spill/leak. Remove all

sources of ignition. Do not breathe vapours or spray mist.

Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

7. Handling and storage

Handling

Safe handling advice Provide sufficient air exchange and/or exhaust in work rooms.

Wear personal protective equipment. Take precautionary measures against static discharge.

Ensure all equipment is electrically grounded before beginning transfer operations.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Use explosionproof equipment.

Storage Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

unsuitable gloves

Material: Polyvinylchloride, leather, nitrile rubber/nitrile latex, natural rubber/natural latex

Eye protection Safety glasses with side-shields

Skin and body protection Protective suit, Safety shoes

Hygiene measures Wash hands before breaks and immediately after handling the product.

Protective measures Wear suitable protective equipment.

9. Physical and chemical properties

Form liquid

state of matter liquid

Colour colourless

Odour aromatic

pH 7

Melting point/range -88.5 °C

Boiling point/range 82.22 °C

Flash point 12 °C; closed cup

Flash point 18 °C; open cup

Autoignition temperature 398.89 °C

Lower explosion limit 2 %(V)

Upper explosion limit 12 %(V)

Vapour pressure 43.996 hPa; 20 °C

Density 0.785 g/cm³

Water solubility completely soluble

Viscosity, dynamic 2.4 mPa.s

Viscosity, kinematic 0.1 mm²/s

Relative vapour density 2.08(Air = 1.0)

10. Stability and reactivity

Materials to avoid Strong oxidizing agents, Incompatible with acids., Halogenated compounds

Hazardous decomposition products

Carbon oxides

Hazardous reactions Hazardous polymerisation does not occur.

11. Toxicological information

Acute oral toxicity LD50 rat: 5,045 mg/kg; literature value

LD50 rabbit: 6,410 mg/kg; literature value

Acute inhalation toxicity LC50 rat: 16,000 mg/l; ; 8 h; literature value

Acute dermal toxicity LD50 rabbit: 12,800 mg/kg; literature value

Skin irritation rabbit: Mild skin irritation; literature value

Eye irritation rabbit: Moderate eye irritation; literature value; Irritating to eyes.

12. Ecological information

Ecotoxicity effects

Toxicity to fish LC50 *Poecilia reticulata*: 7,060 mg/l; 7 d; literature value

LC50 *Pimephales promelas*: 9,640 mg/l; 96 h; literature value

13. Disposal considerations

Product In accordance with local and national regulations., Do not contaminate ponds, waterways or ditches with chemical or used container., The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging Do not burn, or use a cutting torch on, the empty drum., Triple rinse containers., Can be offered for recycling, re-conditioning or puncture.

14. Transport information

ADR UN-No.: 1219; Class: 3; Packaging group: II; F1; Description of the goods: ISOPROPANOL

RID UN-No.: 1219; Class: 3; Packaging group: II; F1; Description of the goods: ISOPROPANOL

ADNR UN-No.: 1219; Class: 3; Packaging group: II; F1; Description of the goods: ISOPROPANOL

IMDG UN-No.: 1219; Class: 3; EmS: F-E, S-D; Packaging group: II;

Description of the goods: ISOPROPANOL

ICAO/IATA UN-No. : 1219; Class: 3; Packaging group: II; Description of the goods: Isopropanol

15. Regulatory information

Labelling

Regulatory base 67/548/EEC

Symbol(s) F: Highly flammable

Xi: Irritant

R-phrases(s) R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

S-phrase(s) S 2: Keep out of the reach of children.

S 7: Keep container tightly closed.

S16: Keep away from sources of ignition - No smoking.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazardous components

which must be listed on the label

propan-2-ol; isopropyl alcohol; isopropanol

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.