

Verona, 1st June 2007

MATERIAL SAFETY DATA SHEET

1) IDENTIFICATION OF PRODUCT AND COMPANY:

Product name: L-15 ISOPROPYL ALCOHOL ml.400 (Aerosol).

Applications: An effective detergent for the all structures and plastic-housings of computers, printers, screens, plotter and photocopier drums and any other office machine. It completely evaporates, leaving no residue: it's particularly suitable for cleaning glasses, lenses, optical fibers and instruments. L-15 eliminates electrostatic charges from audio and video heads, improving the efficiency of audio and video readers. Can be used, with excellent result, for cleaning optical readers of CD and CD-rom, glassed reading surfaces of photocopiers and scanners.

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2) SPECIFIC DANGERS

The content is classified dangerous in accordance with Directive 1999/45/CE.

Health: Irritant to eyes
Vapours may cause drowsiness and dizziness

Specific dangers: The content is highly flammable.
The container is pressurized: at 20°C, 2.6 bars. Over 50°C the packing sealing capacity is compromised and the can may explode.

3) COMPONENT SPECIFICATIONS

Hazardous ingredient	EINECS	CAS nr.	w/w%	Symbols	Risk phrases*
Buthan-2-olo	201-158-5	78-92-2	1-5	F;Xi	10-36/37-67
Propan-2-ol	200-661-7	67-63-0	50-75	F;Xi	11-36-67
Norflurane	212-377-0	811-97-2	30-50	---	---

* For the explanation of the risk phrases see chapter 16

4) FIRST AID INSTRUCTIONS

Inhaling: bring to open air - seek medical advice if ill effects occur.

Eye contact: if the liquid gets in contact with the eyes rinse with plenty water for at least 15 minutes – seek medical advice as soon as possible.

Skin contact: wash with soap and water. Remove the eventual contaminated clothing – seek medical advice

Ingestion: unlikely occurs. Do not induce vomit, in fact if liquid is directly inspired in lungs after vomiting, chemical pneumonia could occur – seek immediately medical advice

5) FIRE INSTRUCTIONS

The content is *highly flammable*. In case of fire in the stockroom, use nebulized-water, sand or Carbon-Dioxide fire extinguishers and keep always at a safety distance. Do not pour water directly on the flames. Containers are pressurized. Do not breathe smokes.

6) INSTRUCTIONS IN CASE OF ACCIDENTAL SPILLING

Absorb with sand or other inert materials. If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities.

7) HANDLING AND STOCKING

Handling: Do not shake the container. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from combustion sources. Do not smoke. Avoid to inhale directly and to spray in the eyes. Avoid improper or excessive use of the product. Avoid the skin and eyes contact with the liquid.

Stocking: Keep stocks in a cool place with fireproofing flooring (if possible). Keep out of reach of children.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

8) EXPOSURE CONTROL / INDIVIDUAL PROTECTION

Ensure adequate ventilation. Take precautionary measures against static charges. Do not inhale vapours or aerosol. Do not smoke or eat at work. Protect eyes and skin, with safety goggles and protective gloves.

Occupational exposure limits :

Hazardous ingredient	CAS nr.	TLV-TWA	TLV-STEL
Buthan-2-olo	78-92-2	300 mg/m ³ - 100ppm	455 mg/m ³ - 150ppm
Propan-2-ol	67-63-0	983 mg/m ³ – 400 ppm	1230 mg/m ³ – 500ppm

Hazardous ingredient	CAS nr.	VME	VLE	MAK
Buthan-2-olo	78-92-2	300 mg/m ³ – 100 ppm	---	300 mg/m ³ - 100ppm
Propan-2-ol	67-63-0	---	980 mg/m ³ – 400 ppm	980 mg/m ³ – 400 ppm

9) PHYSICAL AND CHEMICALS FEATURES

Physical state: Aerosol containing liquefied gas mixed with solvents

Odour: alcoholic odour

Colour: colourless

Vapour density: > 1 (air = 1)

Flash point: < 21°C.

Boiling point range: 82,4-99.5°C.

Density: 0.93 g/cm³ at 20°C

Self-ignition: 401°C.

Water solubility: It can be partially mixed with water

10) STABILITY AND REACTIVITY

No dangerous effects of products decomposition under normal working conditions. Halogen acids may form if used close to high energy sources.

11) TOXICOLOGICAL INFORMATION

Concentrations over the TLV value may cause narcotic effects. No carcinogenic effects were showed.

Inhaling: Inhalation of solvent vapour may give rise to nausea, headaches and dizziness.

Ingestion: LD50 oral rat > 2000 mg/kg

Eye contact: irritating

Skin contact: lightly irritating - LD50 skin rat > 2000mg/kg

12) ECOLOGICAL INFORMATION

Ozone potential depletion ODP = 0

13) WASTE DISPOSAL INSTRUCTIONS

The container must be totally emptied and disposed of in authorized collector bins, in accordance with the national and regional legislation. Do not empty into drains.

14) TRANSPORT

U.N. number: U.N.1950

ADR-RID (Road/Rail): U.N.1950 AEROSOLS - Class 2, Packing Group: NA, Class code : 5F, Label 2.1

IMDG (Sea): U.N.1950 AEROSOLS, Limited quantities Class 2, Packing Group: NA

EmS: F-D, S-U

15) RULE INFORMATION

In accordance with Directive 1999/45/CE and subsequent revisions.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Do not smoke. Avoid to inhale directly and to spray in the eyes. Avoid improper or excessive use of the product.

Warning symbols: F; Xi

Risk-phrases: R11 Highly Flammable
R36 Irritant to eyes
R67 Vapours may cause drowsiness and dizziness.

Safety phrases: S2 Keep out of the reach of children
S16 Keep away from sources of ignition. No smoking
S23 Do not breathe spray
S35 This material and its container must be disposed of in a safe way.
S51 Use only in well-ventilated areas

The container has been filled in accordance with Directive 75/324/EEC dated 20/05/1975 and subsequent revisions.

16) ADDITIONAL INFORMATION AND RECOMMENDATIONS

Risk-phrases: R10 Flammable
R11 Highly flammable
R36 Irritant to eyes
R36/37 Irritant to eyes and respiratory system
R67 Vapours may cause drowsiness and dizziness

We recommend using the product as mentioned under point one (1) page one (1) of this safety data sheet. To the best of our knowledge, the information contained herein is accurate. However, neither Due-Ci Electronic, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

THIS DATA SHEET INVALIDATES AND REPLACES ALL PREVIOUS VERSIONS.