

Material Safety Data Sheet

ECOCLEAR

Date prepared: 4th August 1995

Date revised: 26th November 2002

0CON-178

1. Identification of the Substance/Preparation and the Company/ Undertaking

Substance or preparation trade name: **Ecoclear - Non Solvent Cleaning Fluid**

Unique reference number(s): **0CON-178**

Company/undertaking name & address: **Logitech Ltd.,
Erskine Ferry Road, Old Kilpatrick, Glasgow
G605EU, Scotland, UK**

Telephone: **(+44) 1389 875444**

Emergency telephone number: **As above**

2. Composition

Substance: **Distilled essential oils - food grade**

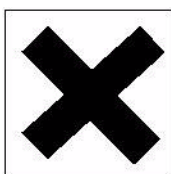
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CAS no.: **N/A**

EINECS no.: **N/A**

TLV (units) **GRAS**

EU label symbol and classification: **R: 10-38
Flammable. Irritating to skin.
S: 26-37
In case of contact with eyes, rinse immediately with plenty of water
and seek medical advice. Wear suitable gloves.**



IRRITANT

3. Hazards Identification

Emergency Overview: **Immediate hazard.
Combustible liquid. All materials in this product are GRAS
(Generally Regarded As Safe). However, this product may be
harmful if swallowed in sufficient volume. Ingestion may cause
vomiting, headache, and other medical problems. This product may
be irritating to skin and eyes. Inhalation can cause nose, throat, and
respiratory tract irritation, coughing and headache. Extremely old or
improperly stored product may begin to accumulate potentially
sensitizing break-down products.**

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Emergency Overview:	Chronic hazard warning. Prolonged or repeated exposure can cause drying, defatting and dermatitis of skin.
Potential Health Effects:	Inhalation - Inhalation can cause nose, throat, and respiratory tract irritation. Prolonged exposure to high vapor or mist concentrations may cause dizziness, headaches, and nasal irritation. Ingestion - Ingestion may cause vomiting, headache, and other medical problems. Skin - Repeated or prolonged contact can cause redness, irritation, and scaling of the skin (dermatitis). Normal care and personal hygiene should prevent skin effects. Eyes - Eye irritation may occur with exposure to concentrated vapours or contact with product.
Signs and Symptoms of Overexposure:	Inhalation - May include dizziness, headaches, and nasal irritation. Ingestion - May include nausea, vomiting, and headache. Skin - May include drying and redness (dermatitis) of the skin. Eyes - May include redness, itching, and watering of the eyes. Carcinogenicity - None of the components of this material are listed by NTP, OSHA, ACGIH, or IARC as a carcinogen or a suspended carcinogen. Mutagenicity - No information available. Reproductive toxicity - No information available. Teratogenic effects - No information available. Routes of entry - May be absorbed through the skin, by inhalation, or by ingestion. Target organ statement - No information available.

4. First Aid Measures

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
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Ingestion:	<i>Do not induce vomiting. If swallowed and the person is conscious, immediately give large amounts of water. Seek medical attention</i>
Skin:	<i>Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.</i>
Eyes:	<i>Remove contact lenses at once. Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Seek medical attention immediately.</i>

5. Fire-Fighting Measures

Flash point:	127 F (53 C)
Flammable limits:	<i>I.E.L. 0.7%; U.E.L. 6.1%</i>
Flash point method:	TCC
Autoignition temperature:	<i>Not available</i>
Extinguishing media:	<i>Dry powder, foam, carbon dioxide (water may be ineffective).</i>
Protective equipment:	<i>In the event of a fire, wear full protective clothing and NIOSH approved, self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.</i>
Hazardous combustion products:	<i>Thermal decomposition products may include carbon monoxide, carbon dioxide, and hydrocarbons.</i>
Unusual fire and explosion hazards:	<i>None known as yet.</i>
NFPA codes:	<i>Health 1 Flammability 2 Reactivity 0</i>

6. Accidental Release Measures

Steps to be taken in case material is released or spilled:	<i>Eliminate source of ignition. Ventilate area. Cover with absorbent material (soda ash) to confine spill and sweep or shovel into container. Close container tightly.</i>
Waste disposal method:	<i>Disposal must be made in accordance with applicable federal, state and local regulations.</i>
Personal precautions:	<i>Wear appropriate protective equipment as specified in section 8.</i>

7. Handling and Storage

Handling:	<i>Avoid contact and inhalation. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling.</i>
Storage:	<i>Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials (section 10).</i>
Storage temperature:	<i>20 C</i>
Disposal:	<i>Observe all national, state, and local regulations regarding disposal.</i>

8. Exposure Controls / Personal Protection

Airborne exposure limits:	<i>Component - Distilled essential oils (food grade) ACGIH Threshold Limit Value (TLV) - GRAS OSHA Permissible Exposure Limit (PEL) -</i>
Engineering controls:	<i>Local exhaust should be adequate.</i>
Respiratory protection:	<i>Not expected to require personal respirator usage, but if vapour concentration becomes high, use NIOSH/MSHA approved self-contained air mask.</i>
Eye protection:	<i>Safety glasses.</i>
Skin protection:	<i>Wear protective gloves and clean body covering clothing.</i>

9. Physical and Chemical Properties

Appearance:	<i>Colourless, mobile liquid.</i>
Odour:	<i>Citrus.</i>
Boiling point:	<i>355 F (179 C)</i>
Evaporation rate:	<i>0.4 (Bu Ac = 1)</i>
Melting point:	<i>NA</i>
Solubility in water:	<i>Insoluble</i>
Vapour pressure:	<i>6.0mm HG @ 25 C</i>
pH:	<i>NA</i>
Vapour density:	<i>4.94 (air = 1)</i>
Specific gravity:	<i>0.85 @ 25 C</i>
% volatile by volume:	<i>100</i>

10. Stability and Reactivity

Stability:	<i>Stable under normal conditions of use. Incompatible with strong oxidising agents.</i>
Conditions to avoid:	<i>Heat, sources of ignition.</i>
Hazardous decomposition products:	<i>Carbon monoxide and unidentified organic compounds may be formed during combustion.</i>
Hazardous polymerisation:	<i>Will not occur.</i>
Incompatibles:	<i>Avoid contact with strong acids, alkalis, or oxidising agents.</i>

11. Toxicological Information

Product LD50 values:	<i>Oral rat LD50 (mg/kg) - GRAS (Generally Regarded As Safe) Dermal rabbit LD50 (mg/kg) - GRAS (Generally Regarded As Safe)</i>
Component Cancer List Status:	<i>Distilled essential oils (food grade) - Not known as a NTP Carcinogen Not anticipated as a NTP Carcinogen No IARC Category</i>

12. Ecological Information

No information available on the ecological fate of this material.

13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

14. Transport Information

Domestic (D.O.T.)

Proper Shipping Name - Not regulated
Hazard Class - NA
UN Number - NA
Packing Group - NA

International (I.A.T.A. / I.M.O.)

Proper Shipping Name - Terpene Hydrocarbons
N.O.S.
Hazard Class - 3
UN Number - 2319
Packing Group - III

15. Regulatory Information

United States:

TSCA Regulatory -
All intentional ingredients are listed on the TSCA inventory.

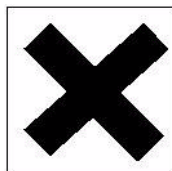
SARA 311/312 Hazard Categories -
Fire Yes
Pressure No
Reactivity No
Acute No
Chronic No

Europe:

EEC Regulatory -
All intentional ingredients are listed on the European EINECS Inventory.

EU label and symbol classification:

R: 10-38
Flammable. Irritating to skin.
S: 26-37
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16. Other Information

NFPA codes:

Health 1**Flammability 2****Reactivity 0**

Use:

Used as a cleaner to remove wax from electronic and optical components.

Abbreviations:

N/E: Not established**N/A: Not available**

The information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.