

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 05/06/2015

1 Identification

· **Product identifier**

· **Trade name: Ecolink 1171**

· **Product description**

ECOLINK 1171 is a low VOC (25 gm/l) solvent degreaser.

Product Name	Part No.	Packaging
ECOLINK 1171	1171-55	55 Gal Drums
ECOLINK 1171	1171-5	5 Gal Pails
ECOLINK 1171	1171-1	4 x 1 Gallon Cans
ECOLINK 1171	1171-16	4 x 1 Pt Case

· **Application of the substance / the mixture:** Low VOC Degreasing Solvent

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Ecolink
2177 Flintstone Drive, Ste. A
Tucker, GA 30084
www.ecolink.com
800-886-8240 or 770-621-8240 (8-5 EST)

email: info@ecolink.com

· **Emergency telephone number:**

Inside the U.S.: 800-535-5053 (INFOTRAC, 24 HOURS)
Outside the U.S.: 352-323-3500 (INFOTRAC, 24 HOURS)

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02



GHS07

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Trade name: Ecolink 1171

• **Signal word** *Danger*

• **Hazard-determining components of labeling:**

d-limonene

• **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

• **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing fume/gas/mist/vapors/spray.

Wear protective gloves/eye protection/face protection.

Wear protective gloves.

Wear eye protection / face protection.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water¹ shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/national/international regulations.

• **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

• **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

• **Hazard(s) not otherwise classified (HNOC):** None known

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous Components:**

CAS: 98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	80-90%
CAS: 79-20-9 RTECS: AI 9100000	Methyl Acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H335- H336	10-20%
CAS: 5989-27-5 RTECS: GW 6360000	d-limonene Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	2-8%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness, place patient securely on side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting.
If vomiting does occur, repeat fluid administration
If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration).
Once the vomiting ceases, place the person in the recovery position with the legs slightly raised.
If symptoms develop and/or persist, seek medical attention.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, sand, extinguishing powder. Do not use water.
Regular foam, water fog, carbon dioxide or dry chemical. Class B.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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Trade name: Ecolink 1171**Special hazards arising from the substance or mixture**

If incinerated product will release the following toxic fumes: Carbon Oxides, unburnt hydrocarbon particulate, Hydrochloric acid gas and Hydrofluoric acid gas.

• **Advice for firefighters** Use water spray to cool unopened containers.

Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep people at a distance and stay upwind.

Avoid contact with skin, eyes and clothing.

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

• **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:**Precautions for safe handling**

Avoid contact with skin, eyes and clothing

Keep away from sources of ignition.

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols and spray mists.

Keep receptacles tightly sealed.

• **Information about protection against explosions and fires:** Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

• **Information about storage in one common storage facility:** Not required.

Further information about storage conditions:

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

• **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.
- **Components with occupational exposure limits:**
 - 79-20-9 Methyl Acetate**
 PEL Long-term value: 610 mg/m³, 200 ppm
 REL Short-term value: 760 mg/m³, 250 ppm
 Long-term value: 610 mg/m³, 200 ppm
 TLV Short-term value: 757 mg/m³, 250 ppm
 Long-term value: 606 mg/m³, 200 ppm
 - 5989-27-5 d-limonene**
 TWA Short-term value: 10 mg/m³
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 The usual precautionary measures for handling chemicals should be followed.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing and wash before reuse.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
- **Breathing equipment:**
 Not required.
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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· **Eye protection:**



Tightly sealed goggle or safety glasses with side shields

· **Body protection:**



Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Liquid

Color:

Colorless

· **Odor:**

Sweet, naphthenic

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

56-138 °C (133-280 °F)

· **Flash point:**

0 °C (32 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

455 °C (851 °F)

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:

3.0 Vol %

Upper:

16.0 Vol %

· **Vapor pressure @ 20 °C (68 °F):**

44.1 mm Hg

· **Density @ 20 °C (68 °F):**

1.254 g/cm³ (10.46 lbs/gal)

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- **Relative density** Not determined.
- **Vapor density** >5.0 (air=1)
- **Evaporation rate @ 20 °C (68 °F)** 1.4 (nBuAc=1)
- **Solubility in | Miscibility with Water:** Partly soluble.
- **Partition coefficient (n-octanol|water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
- **VOC content:** 25 g/l
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition | conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Elevated temperatures; decomposes with heat. Sources of ignition such as sparks, hot spots, welding, flames.
- **Incompatible materials:**
Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:**
Carbon Oxides, Hydrochloric acid gas and Hydrofluoric acid gas.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 - 98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene**
 - Oral LD50 6,800 mg/kg (rat)
 - Inhalative LC50 14 h 20,000 mg/l (rabbit)

 - 79-20-9 Methyl Acetate**
 - Oral LD50 >5,000 mg/kg (rat)
 - Dermal LD50 >5,000 mg/kg (rabbit)

 - 5989-27-5 d-limonene**
 - Oral LD50 4,400 mg/kg (rat)
 - Dermal LD50 >5000 mg/kg (rabbit)

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- **Primary irritant effect:**
- **on the skin:**
Irritant to skin and mucous membranes.
May cause an allergic skin reaction.
- **on the eye:**
Irritating effect.
Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans
5989-27-5 d-limonene 3
- **NTP (National Toxicology Program)**
None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients are listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
5989-27-5 d-limonene
EC50 0.36 mg/l (daphnia) (OECD Test Guideline 202)
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

ECOLINK 1171 liquid is to be disposed of according to local, state, and federal regulations. Please call us if you need additional disposal information.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Dispose of as unused product.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN1993

· **UN proper shipping name**

· **DOT**

Flammable liquids, n.o.s. (Methyl acetate, Chlorobenzotrifluorides)

· **ADR**

UN1993 Flammable liquids, n.o.s. (Methyl acetate, Chlorobenzotrifluorides)

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (METHYL ACETATE, CHLOROBENZOTRIFLUORIDES), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (METHYL ACETATE, CHLOROBENZOTRIFLUORIDES)

· **Transport hazard class(es)**

· **DOT**



· **Class**

3 Flammable liquids

· **Label**

3

· **ADR**



· **Class**

3 (F1) Flammable liquids

· **Label**

3

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· **IMDG**



· **Class** 3 Flammable liquids
 · **Label** 3

· **IATA**



· **Class** 3 Flammable liquids
 · **Label** 3

· **Packing group**
 · **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances: d-limonene

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 33

· **EMS Number:** F-E' S-E

· **Segregation groups** Liquid halogenated hydrocarbons

· **Transport in bulk according to Annex II of MARPOL73178 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 5 L
 On cargo aircraft only: 60 L

· **ADR**

· **Excepted quantities (EQ)** Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· **IMDG**

· **Limited quantities (LQ)** 1L

· **Excepted quantities (EQ)** Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN1993 Flammable liquids n.o.s. (Methyl acetate Chlorobenzotrifluorides) 3 II

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredients are listed.
- **Section 313 (Specific toxic chemical listings):**
None of the ingredients are listed.
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.
- **California Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients are listed.
- **Chemicals known to cause developmental toxicity:**
None of the ingredients are listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
None of the ingredients are listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients are listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients are listed.
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
d-limonene
- **Hazard statements**
Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

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Trade name: Ecolink 1171

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Wear protective gloves/eye protection/face protection.
 Wear protective gloves.
 Wear eye protection/face protection.
 Ground/bond container and receiving equipment.
 Keep container tightly closed.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 Wash contaminated clothing before reuse.
 If skin irritation occurs: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 In case of fire: Use for extinction: CO2 powder or water spray.
 Take off contaminated clothing and wash it before reuse.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· State Right to Know

CAS: 98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene Flam. Liq. 3 H226; Skin Irrit. 2 H315; Eye Irrit. 2A H319	80-90%
CAS: 79-20-9	Methyl Acetate Flam. Liq. 2 H225; Eye Irrit. 2 H319; STOT SE 3 H335- H336	10-20%
CAS: 5989-27-5	d-Limonene Aquatic Acute 1 H400; Aquatic Chronic 1 H410; Skin Irrit. 2 H315; Skin Sens. 1 H317; Flam. Liq. 4 H227	2-8%

All ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Trade name: Ecolink 1171**16 Other information**

Ecolink Inc. believes the information contained herein is accurate. However Ecolink makes no warranty expressed or implied regarding the accuracy of this data or the results to be obtained by the use thereof. Ecolink Inc. assumes no responsibility for injury from the use of the product described herein.

• **Date of preparation / last revision** 05/06/2015

• **Abbreviations and acronyms:**

ADR: *The European Agreement concerning the International Carriage of Dangerous Goods by Road*

ADN: *The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways*

IMDG: *International Maritime Code for Dangerous Goods*

DOT: *US Department of Transportation*

IATA: *International Air Transport Association*

ACGIH: *American Conference of Governmental Industrial Hygienists*

EINECS: *European Inventory of Existing Commercial Chemical Substances*

ELINCS: *European List of Notified Chemical Substances*

CAS: *Chemical Abstracts Service (division of the American Chemical Society)*

NFPA: *National Fire Protection Association (USA)*

HMIS: *Hazardous Materials Identification System (USA)*

VOC: *Volatile Organic Compounds (USA, EU)*

LC50: *Lethal concentration, 50 percent*

LD50: *Lethal dose' 50 percent*

Flam. Liq. 2: *Flammable liquids Hazard Category 2*

Flam. Liq. 3: *Flammable liquids Hazard Category 3*

Flam. Liq. 4: *Flammable liquids Hazard Category 4*

Skin Irrit. 2: *Skin corrosion/irritation Hazard Category 2*

Eye Irrit. 2: *Serious eye damage/eye irritation Hazard Category 2*

Eye Irrit. 2A: *Serious eye damage/eye irritation, Hazard Category 2A*

Skin Sens. 1: *Sensitization - Skin' Hazard Category 1*

STOT SE 3: *Specific target organ toxicity - Single exposure, Hazard Category 3*

Aquatic Acute 1: *Hazardous to the aquatic environment - Acute Hazard, Category 1*

Aquatic Chronic 1: *Hazardous to the aquatic environment - Chronic Hazard, Category 1*

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