

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: ECC (A)**
- **Relevant identified uses of the substance or mixture and uses advised against**
Environmentally Preferred Contact Cleaner
- **Product description**
ECC is a flammable contact cleaner intended for non-energized electrical/electronics applications

Product Name	Part No.	Packaging
ECC (A)	0318-12	12 x 13 oz. net Aerosol

- **Application of the substance I the mixture** Environmentally Preferred Contact Cleaner

- **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. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

STOT SE 3 H315, H336 Causes skin irritation, May cause drowsiness or dizziness

Label elements

- **GHS label elements**

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

(Contd. on page 2)

us

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

· **Hazard pictograms**



GHS02 GHS08



GHS07

· **Signal word** *Danger*

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

Naphtha (petroleum), light alkylate

· **Hazard statements**

Extremely flammable aerosol. Pressurized container: May burst if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation

May cause drowsiness or dizziness; Target Organ Single, Narcotic

· **Precautionary statements**

Pressurized container: Do not pierce or burn, even after use.

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

Avoid breathing mist/vapors

Do not spray on an open flame or other ignition source.

Use only in a well-ventilated area.

Wear protective gloves; eye protection; face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If swallowed: Immediately call a poison center/doctor.

If exposed or concerned: Get medical advice/attention.

Do NOT induce vomiting.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/120 °F.

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

· **Unknown acute toxicity:**

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

· **HMIS-ratings (scale 0 - 4)**

HEALTH	*2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description: Mixture**

(Contd. on page 3)

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

· Dangerous Components:

CAS: 64741-66-8	Naphtha (petroleum), light alkylate H225; H304; H336; H315; H401; H411	90-99%
CAS: 124-38-9	Carbon Dioxide	2-12%
RTECS: FF 6400000	Press. Gas, H280; Simple Asphyxiant	

4 First-aid measures

· Description of first aid measures

· After inhalation:

In case of symptoms arising from inhalation of fumes, mists or vapour: Remove casualty to a quiet and well ventilated place if safe to so. If the casualty is unconscious and not breathing, ensure that there is no obstruction to air passage ways and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain immediate medical assistance. If the casualty is breathing, place in a recovery position and administer oxygen by trained personnel if necessary. Seek medical attention if breathing remains difficult.

In case of unconsciousness, place patient securely on side position for transportation.

· After skin contact:

Generally with short contact the product does not irritate the skin.

Wash areas with soap and water.

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: Regular foam, carbon dioxide or dry chemical, rated for Class B.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· Special hazards arising from the substance or mixture

If incinerated product will release the following toxic fumes: Carbon Oxides, unburnt hydrocarbon particulate.

· Advice for firefighters

Pressurized aerosol containers may explode when exposed to heat from fires. Use caution.

Use water spray to cool unopened containers.

(Contd. on page 4)

us

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

• **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:** Do not allow to enter sewers¹ surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (ie. sand, diatomite, universal binders), do NOT use 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 ventilation¹exhaustion at the workplace.

Keep receptacles tightly sealed.

• **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Keep protective respiratory device available.

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.

• **Conditions for safe storage, including any incompatibilities**

Store away from strong acids, strong bases, strong oxidizing agents and strong reducing agents.

• **Storage:**

• **Requirements to be met by storerooms and receptacles:**

Store in a well ventilated place.

Store in a cool, dry place away from sparks and flame.

Do not store in direct sunlight.

Observe official regulations on storing packagings with pressurized containers.

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

(Contd. on page 5)

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

- **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.

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:**
124-38-9 Carbon Dioxide
 PEL Long-term value: 9,000 mg/m³, 5,000 ppm
 REL Short-term value: 54,000 mg/m³, 30,000 ppm
 Long-term value: 9,000 mg/m³, 5,000 ppm
 TLV Short-term value: 54,000 mg/m³, 30,000 ppm
 Long-term value: 9,000 mg/m³, 5,000 ppm
- **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:**
 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.
 Store protective clothing separately.
- **Breathing equipment:**



Suitable respiratory protective device recommended.

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:** Not required.
- **Eye protection:**



Tightly sealed goggles or safety glasses with side shields

- **Body protection:** Not required.

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Mild, petroleum-like
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	98 °C (208 °F)

· **Flash point:** -8 °C (18 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 430 °C (806 °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:	0.9 Vol %
Upper:	6.3 Vol %

· **Vapor pressure @ 20 °C (68 °F):** 34 mm Hg

· **Density @ 20 °C (68 °F):** 0.668 g/cm³ (5.57 lbs/gal)

· **Relative density** Not determined.

· **Vapor density @ 20 °C (68 °F)** 3.9 (air=1)

· **Evaporation rate @ 20 °C (68 °F)** 3.83 (nBuAc=1)

· **Solubility in / Miscibility with**

Water:	Negligible
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· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

· **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.

(Contd. on page 7)

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Heat, flame and ignition sources.
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.

11 Toxicological information

- **Acute toxicity:**

Inhalation	LC50 (rat)	>21 mg/l (vapor)
Ingestion	LD50 (rat)	>5,000 mg/kg
Dermal	LD50(rabbit)	>2,000 mg/kg
- **Primary irritant effect:**
 - **on the skin:** Moderately irritating effect with prolonged exposure..
 - **on the eye:** Mild short-lasting discomfort to eyes.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients are listed.
- **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** The hazards for the aquatic environment are unknown.
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Expected to be inherently biodegradable.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 ECC (A) liquid is to be disposed of according to local, state, and federal regulations. The manufacture recommends incineration when disposing of waste material. Please call us if you need additional disposal information.
 Under RCRA this material is considered a hazardous waste due to the flash point. The EPA hazardous waste number is D001.
- **Uncleaned packagings:**
- **Recommendation:**
 Dispose of as unused product.
 Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · UN-Number · DOT · ADR, IMDG, IATA | <p>ORM-D Consumer Commodity
UN1950</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG · IATA | <p>ORM-D Consumer Commodity
UN1950 Aerosols
AEROSOLS
AEROSOLS, flammable</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT · Class · ADR | <p>ORM-D Consumer Commodity</p> |
|  | |
| <ul style="list-style-type: none"> · Class | <p>2 5F Gases</p> |

(Contd. on page 9)

Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

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· Label	2.1
· IMDG, IATA	
	
· Class	2.1
· Label	2.1
· Packing group	
· DOT, ADR, IMDG, IATA	Non-Regulated Material
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Gases
· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg ORM-D Consumer Commodity
· Remarks:	
· ADR	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN1950, Aerosols, 2.1

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
Section 311/312 Reportable Hazard Categories:
Fire; Immediate Health; Pressure
- **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.

(Contd. on page 10)

Safety Data Sheet (SDS)

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

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- **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.
- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
Naphtha (petroleum), light alkylate
- **Hazard statements**
*Extremely flammable aerosol. Pressurized container: May burst if heated.
May be fatal if swallowed and enters airways.
Causes skin irritation
May cause drowsiness or dizziness; Target Organ Single, Narcotic.*
- **Precautionary statements**
*Pressurized container: Do not pierce or burn, even after use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing mist/vapors
Do not spray on an open flame or other ignition source.
Use only in a well-ventilated area.
Wear protective gloves; eye protection; face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If swallowed: Immediately call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.
Do NOT induce vomiting.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/120 °F.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 11)

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Safety Data Sheet (SDS)

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

Reviewed on 05/06/2015

Trade name: ECC (A)

· **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: 64741-66-8	Naphtha (petroleum), light alkylate H350; Asp. Tox. 1, H304	90-99%
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CAS: 124-38-9	Carbon Dioxide	2-12%
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RTECS: FF 6400000 Press. Gas, H280; Simple Asphyxiant

All ingredients are listed.

· **Information about limitation of use:**

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

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)

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

· SDS created by MSDS Authoring Services www.msdsauthoring.com (877) 204-9106