

Issue Date 08/29/2016

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Natural Clean Degreaser

Other means of identification

Product Code 1965

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

GHS-US Classification

Flam. Liq. 4	H227
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Asp. Tox. 1	H304

Full text of H statements : see section 16

Label elements

Emergency Overview

DANGER

Hazard statements

Combustible liquid
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage



Appearance: Clear, light yellow liquid

Physical state: Liquid

Odor: Citrus scent



Precautionary Statements - Prevention

Keep away from heat, open flames, sparks. - No smoking.
 Avoid breathing mist, spray.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear eye protection, protective clothing, protective gloves.

Precautionary Statements - Response

If swallowed: Immediately call a doctor, a POISON CENTER.
 If on skin: Wash with plenty of soap and water.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a doctor, a POISON CENTER.
 Specific treatment (see First aid measures on this label)
 Do NOT induce vomiting.
 If skin irritation occurs: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Wash contaminated clothing before reuse.
 In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to comply with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC)

Other Information

- No additional information available

Unknown Acute Toxicity

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	GHS-US classification	TRADE SECRET
(+)-limonene	5989-27-5	10-30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304	*
UNDECETH-5	34398-01-1	5-10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General Advice

If you feel unwell, seek medical advice (show the label where possible).

Skin Contact

Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. Soap may be used. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion	Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
Self-protection of the first aider	Use personal protective equipment as required. May be hazardous to give mouth-to-mouth resuscitation.

Most important symptoms and effect, both acute and delayed

Symptoms	If you feel unwell, seek medical advice. After inhalation: May cause respiratory irritation. After skin contact: Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. After eye contact: Causes serious eye damage. After ingestion: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Nausea. Diarrhea. Vomiting.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Foam. Carbon dioxide. Dry chemical powder.

Unsuitable extinguishing media: Solid water jet ineffective as extinguishing medium.

Specific hazards arising from the chemical

Treat as an oil fire. Vapors may travel long distances along ground before igniting/flashing back to vapor source. Rags soaked with any solvent present a fire hazard and should always be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions, can lead to spontaneous combustion. This product contains antioxidants to retard oxidation. Upon combustion: CO and CO₂ are formed.

Protective equipment and precautions for firefighters

Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions	No flames, No sparks. Eliminate all sources of ignition. For non-emergency personnel: Protective goggles. Gloves. Protective clothing. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area. For emergency responders: Equip cleanup crew with proper protection. Stop leak if safe to do so. Stop release. Ventilate area.
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Environmental precautions

Environmental precautions	Avoid release to the environment. Prevent entry to sewers and public waters.
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Methods and material for containment and cleaning up**Methods for containment & cleaning up**

Contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on Safe Handling**

Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

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

Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Keep container tightly closed. Meet the legal requirements. Store in a cool area. Store in a well-ventilated place. Keep only in original container.

Incompatible products

Strong oxidizing agents.

Incompatible materials

Sources of ignition. Heat sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No additional information available

Individual protection measures, such as personal protective equipment

Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear, light yellow liquid
Color	Light yellow
Odor	Citrus scent
Odor Threshold	No data available

Property**Values**

pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	165 °F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 °C	No data available
Specific gravity / density	0.88 g/ml
Solubility	Emulsifies in water.
Log Pow	No data available

Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	< 20 cSt
Viscosity, dynamic	No data available
VOC content	< 15 %

10. STABILITY AND REACTIVITY

Reactivity

Upon combustion: CO and CO₂ are formed.

Chemical Stability

No additional information available.

Possibility Of Hazardous Reactions

Refer to section 10.1 on Reactivity.

Conditions To Avoid

No additional information available.

Incompatible Materials

No additional information available.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity Not classified

(+)-LIMONENE (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE CLP (oral)	4400.000 mg/kg body weight

UNDECETH-5 (34398-01-1)	
LD50 oral rat	> 1400 mg/kg

Symptoms

Inhalation: May cause respiratory irritation.
Skin Contact: Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Eye Contact: Causes serious eye damage.
Ingestion: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.
Gastrointestinal complaints. Nausea. Diarrhea. Vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

(+)-LIMONENE (5989-27-5)	
IARC group	3 - Not Classifiable

Reproductive toxicity	D-limonene has been shown to cause harm to the fetus in lab animal studies. Relevance to humans is uncertain.
STOT - single exposure	Category 3 (Central Nervous System)
STOT - repeated exposure	No Information available. Has been found to cause kidney damage in male rats, mild reversible liver effects in lab animals. Not expected to occur in humans.
Aspiration hazard	Yes
Likely routes of exposure	Skin and eyes contact

12. ECOLOGICAL INFORMATION

Ecotoxicity

(+)-LIMONENE (5989-27-5)	
LC50 fish 1	720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flowthrough system; Fresh water; Experimental value)
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)

UNDECETH-5 (34398-01-1)	
LC50 fish 1	< 10 mg/l
EC50 Daphnia 1	< 10 mg/l
ErC50 (algae)	< 10 mg/l

Persistence and Degradability

(+)-LIMONENE (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	3.29 g O ₂ /g substance

Bioaccumulation

(+)-LIMONENE (5989-27-5)	
BCF fish 1	864.8 - 1022 (BCF; Pisces)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of Wastes	Dispose in a safe manner in accordance with local/national regulations.
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14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

In accordance with DOT *Not regulated for transport.*

Additional information

Other information *No supplementary information available.*

ADR

No additional information available.

Transport by sea

No additional information available.

Air transport

No additional information available.

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

UNDECETH-5 (34398-01-1)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

16. OTHER INFORMATION

Full text of H-phrases

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

NFPA	Health hazards	2	Flammability	2	Reactivity	0	Other	
HMIS	Health hazards	2	Flammability	2	Reactivity	0	Personal protection	

Issue Date 08/29/2016
Revision Date
Revision Note

N/A = Not Applicable; N/D = Not Determined

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet