

#### To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States) The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team Zep Inc.

Version No. 01/EN US OSHA Hazard Communication Standard

**Revision** N.A. (29 CFR 1910.1200)

Printing date 9. Jun 2021

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name Carbon Clean Liquid

#### 1.2 Relevant identified uses of substance or mixture and uses advised against

Relevant identified uses carburetor cleaner

Uses advised against

# 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier HK Technology Co., LTD

Street address 57-1 Heungan-Daero 427Beon-Gil, Dongan-Gu, Anyang-Si, Gyeonggi-Do, Republic

of Korea

Telephone number (82) 31-427-0235, 0245 /

e-mail address Richard Huh/ President (sales@hktechnology.co.kr)

National contact: N.A.

**1.4 Emergency telephone number** (24 hr.accessible emergency phone number)

+82 1067220235

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## 2.1.1 Classification of the chemical in accordance with paragraph (d) of §1910.1200

Skin irritation; Cat. 2

Skin sensitization; Cat. 1

Hazardous to Aquatic Environment (Acute/Chronic); Cat. 1

## 2.1.2 Additional information:

No information available.

## 2.2 Label elements

## 2.2.1 Labeling according to US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal word WARNING

Symbol(s)/Hazard pictograms



Hazard Statement(s) H315Causes skin irritation

H317May cause an allergic skin reaction

H400Very toxic to aquatic life

H410Very toxic to aquatic life with long-lasting effects

Precautionary statement

Prevention
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264Wash ... thoroughly after handling.

P272Contaminated work clothing should not be allowed out of the workplace

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P273Avoid release to the environment

P280Wear protective gloves/protective clothing/eye protection/face protection.

- Response P321Specific treatment

P391Collect spillage.

P302+P352IF ON SKIN: wash with plenty of water

P332+P313IF SKIN irritation occurs: Get medical advice/attention.

P333+P313IF SKIN irritation or rash occurs: Get medical advice/attention.

- Disposal P501Dispose of contents/container according to regulations.

Supplemental Hazard information No Data available

#### 2.3. Other hazards

No Data available

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2. Mixtures

Description of the mixture: Oily Surface Cleaner & Degreaser

Hazardous ingredients:

CAS No.	Substance name	%
112-34-5	2-(2-Butoxyethoxy)ethanol	5.0~9.0 %
5989-27-5	D-Limonene	1.0~3.0 %
1300-72-7	Sodium xylenesulphonate	2.0~6.0 %
7732-18-5	D/I water	85.0~90.0 %
6408-80-6	C.I. Acid Blue 145 0.001~0.002%	

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General notes Consult a physician if necessary.

Inhalation Remove victim to fresh air. If breathing has stopped, give artificialRespiration. Get

medical attention immediately

Skin contact Remove contaminated clothing. Wash contact area with mild soap and water Rinse

thoroughly

Eye contact Immediately irrigate eyes with flowing water for 15 minutes while Blinking eyelids. Get

medical attention

Ingestion Do not induce vomiting. For a conscious victim, drink one or two cups of milk or water.

Never give anything to an unconscious person. Get medical attention immediately

Self-protection of the first aider No information available.

## 4.2 Most important symptoms and effects, both acute and delayed

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Treat symptomatically.

## 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and

Suitable extinguishing media: the surrounding environment.

Unsuitable extinguishing media No information available.

### 5.2Special hazards arising from the substance or mixture

No information available.

## 5.3Advice for firefighters

Fire Fighter should observe all precautions that apply to any fire where chemicals are stored

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: No information available.

Emergency procedures: Use personal protection recommended in Section 8.

6.1.2 For emergency responders

Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental precautions

Ensure adequate ventilation, especially in confined areas.

### 6.3 Methods and material for containment and cleaning up

6.3.1 For containment If product leaks or spills – contain then flood area with water – mop up

6.3.2 For cleaning up: No information available.

6.3.3 Other information Dispose in accordance with Federal, State and Local regulations

# 6.4 Reference to other sections

No information available.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Protective measures: Do not destroy or deface the label

Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Store containers tightly closed and in an upright position

# 7.3. Specific end use(s)

The information required is contained in this Material Safety Data Sheet.

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# **SECTION 8: Exposure controls/personal protection**

## 8.1Control parameters

Occupational exposure limit values

## 2-(2-Butoxyethoxy)ethanol

Occupational exposure limit	2-(2-Butoxyethoxy)ethanol	
TLV	10 ppm as TWA.	
MAK	67 mg/m3, 10 ppm	
FILOSI	67.5 mg/m3, 10 ppm as TWA;	
EU-OEL	101.2 mg/m3, 15 ppm as STEL	

#### D-Limonene

Occupational exposure limit	D-Limonene	
US AIHAWEELs	TWA; 30 ppm	
Canada	TWA; 20 ppm, 111 mg/m3 STEL; 30 ppm	
CEL TWA	30 ppm, 165.6 mg/m3	

#### Biological limit values

No data available.

#### 8.2 Exposure controls

Appropriate engineering controls: Mechanical ventilation if vapor concentration becomes high.

Eye / Face protection: Safety glasses or goggles

Skin protection: Impervious gloves and protective clothing

protection.

Thermal hazards No information available.

## 8.3Environmental exposure controls

Substance/mixture related measures to prevent No information available.

exposure:

Instruction measures to prevent exposure: No information available. Organizational measures to prevent exposure: No information available. Technical measures to prevent exposure: No information available.

# SECTION 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

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properties	Carbon Clean Liquid	2-(2-butoxyethoxy)ethanol	D-Limonene
a) Appearance	Liquid / Blue	Liquid	Liquid
b) Odour	Orange smel	No data	No data
c) Odourthreshold	No data	No data	No data
d) Melting point/freezing point	< 0°C	-66.15 °C	-74 °C
e) Boiling point and boiling range	> 100°C	229.85 °C	176 °C
f) Flammability	None flammable	Non flammable	No data
g) Lower and upper explosion limit	No data	No data	No data
h) Flash point	will not burn	114.85 °C	51 °C
i) Auto-ignition temperature	No data	209.85 °C	245 °C
j) Decomposition temperature	No data	No data	No data
k) pH	› 11.0	No data	No data
l) Kinematic viscosity	No data	6.49mPa.s	0.846 mPa.s
m) Solubility	Complete soluble	955 g/L @ 20 ℃	5.69 mg/L @ 25 °C
n) Partition coefficient n-octanol/water	No data	1 @ 20 ℃	4.38 @ 37 °C
o) Vapour pressure	< 1 (BuAc =1)	2.92 Pa @ 25 °C	2 hPa @ 24.85 °C
p) Density and/or relative density	1.01 ~ 1.02	0.955 g/cm³	0.844 @ 20 °C
q) Relative vapour density	No data	No data	No data
r) Particle characteristics	No data	No data	No data

## 9.2 Other information

# 9.2.1Information with regard to physical hazard classes

Not applicable.

## 9.2.2. Other safety characteristics

Not applicable.

# **SECTION 10:Stability and reactivity**

**10.1 Reactivity** Not applicable.

**10.2 Chemical stability** Stable

10.3 Possibility of hazardous reactionsNone Known10.4 Conditions to avoidNone Known

**10.5 Incompatible materials** Strong oxidizers and acids

**10.6 Hazardous decomposition products** None Known.

# **SECTION 11: Toxicological information**

# 11.1Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity No data available

2-(2-butoxyethoxy)ethanol Oral; LD50 2 410 mg/kg bw
Dermal; LD50 2 764 mg/kg bw

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D-Limonene Oral; LD50 2 000 mg/kg bw

Dermal; LD50 5 000 mg/kg bw

Skin corrosion/irritation No data available

2-(2-butoxyethoxy)ethanol No adverse effect observed (not irritating)
D-Limonene No adverse effect observed (not irritating)

Serious eye damage/irritation No data available

2-(2-butoxyethoxy)ethanol Adverse effect observed (irritating)

D-Limonene No adverse effect observed (not irritating)

Respiratory or skin sensitisation 
No data available

2-(2-butoxyethoxy)ethanol No adverse effect observed (not sensitising)

D-Limonene Adverse effect observed (sensitising)

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Summary of evaluation of the CMR

No data available

No data available

properties;

STOT-single exposure No data available

2-(2-butoxyethoxy)ethanol Inhalation route; ((DNEL) 67.5 mg/m<sup>3</sup>

STOT-repeated exposure No data available

2-(2-butoxyethoxy)ethanol Oral route; (DNEL) 6.25 mg/kg bw/day

Oral route; NOAEL 250 mg/kg bw/day (subchronic, rat)

Inhalation route; (DNEL) 101.2 mg/m<sup>3</sup>

Inhalation route; NOAEC 94 mg/m³ (subchronic, rat)

D-Limonene Oral; (DNEL) 4.8 mg/kg bw/day

Oral; LOAEL 1 000 mg/kg bw/day (subchronic, dog)

Dermal; (DNEL) 4.8 mg/kg bw/day Inhalation; (DNEL) 16.6 mg/m<sup>3</sup>

Aspiration hazard No data available

# 11.2 Symptoms related to the physical, chemical and toxicological characteristics

No data available

## **SECTION 12: Ecological information**

**12.1Ecotoxicity** No data available.

Acute (short-term) toxicity

2-(2-butoxyethoxy)ethanol Fish; LC50 (4 days) 1.3 g/L

aquatic invertebrates; EC50 (48 h) 100 mg/L

algae and cyanobacteria; EC50 (4 days) 100 mg/L, EC50 (72 h) 1.101 g/L

microorganisms; EC10 (30 min) 1.995 g/L

Chronic (long-term) toxicity:

12.2 Persistence and degradability12.3Bioaccumulative potentialNo data available.

**12.4 Mobility in soil** No data available.

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12.5 Endocrine disrupting propertiesNo data available.12.6 Other adverse effectsNo data available.12.7 Additional informationNo data available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Comply with a central government and local autonomous entity regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3

# 13.1.1 Product / Packaging disposal:

Do not reuse container.

#### 13.1.2 Waste treatment-relevant information

Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

# 13.1.3 Sewage disposal-relevant information

No information available.

#### 13.1.4 Other disposal recommendations

No information available.

## **SECTION 14: Transport Information**

#### 14.1 Land transport (US DOT ground)

UN number or ID number

Proper Shipping Description

Transport hazard class(es)

Packing group

DOT Marine Pollutant

Reportable Quantity (RQ)

This product is Not Regulated

No information available.

No information available.

No information available.

No information available.

#### 14.2 Air transport (ICAO-TI / IATA-DGR)

UN number or ID number

UN proper shipping name

This product is Not Regulated

No information available.

Transport hazard class(es)

Packing group

No information available.

Special Provisions

No information available.

Special precautions for user

No information available.

#### 14.3 Sea transport (IMDG)

UN number or ID number

Proper Shipping Description

Transport hazard class(es)

Packing group

Marine Pollutant

Special Provisions

This product is Not Regulated

No information available.

No information available.

No information available.

No information available.

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Special precautions for user

No information available.

## 14.4 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No information available.

#### 14.5 Additional information

No information available.

# **SECTION 15: Regulatory information**

## 15.1 Federal Regulations

Toxic Substances Control Act (TSCA):

CAS# 5989-27-5 is listed on the TSCA inventory.

California Prop. 65

WARNING: This product can expose you to chemicals including 7-methyl-3-methyleneocta-1,6diene, which is/are known to the state of California to cancer. For more information go to www.P65Warnings.ca.gov.



CAS# 123-35-3 is listed on the California Prop 65.

The Superfund Amendments and Reauthorization Act (SARA): No data available.

Canada DSL/NDSL: CAS# 5989-27-5 is listed on Canada's DSL List.

Canada - WHMISCAS# 5989-27-5has a WHMIS classification of B3, D2B.

Canadian Ingredient Disclosure ListCAS# 5989-27-5 is listed on the Canadian Ingredient Disclosure List.

### 15.2 Regional regulatory information:

For this substance a chemical safety assessment is not required.

# **16. OTHER INFORMATION**

The contents and format of this MSDS/SDS are in accordance with Regulation (EC) No 1907/2006.

## 16.1Indication of changes

Creation Date: June 14, 2021

Revision Date : -

# 16.2Abbreviations and acronyms

No information available.

# 16.3Key literature references and sources for data

UNECE Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (https://unece.org/ghs-rev8-2019)

ECHA Substance Infocard (https://echa.europa.eu/fr/substance-information/-/substanceinfo/100.025.284)

ECHA Hazard classification & labelling (https://echa.europa.eu/fr/brief-profile/-/briefprofile/100.025.284)

OSHA - Hazard Communication Standard: Safety Data Sheets

Canadian Centre for Occupational Health & SafetyWHMIS 2015 - Safety Data Sheet (SDS)

## 16.4Further information

No information available.

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