

According to Regulation (EU) No 2020/878

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : CARIFIL CLUTCH & BRAKE FLUID DOT-4

Product code : CRX472, AT77H

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application : SU21 Consumer product. PC17 Hydraulic fluids, including brake and transmission fluids.

1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Polska Sp. z o. o.

Al. Jerozolimskie 146 02-305 Warszawa, Poland

Telephone : +48 22 822 5390
E-mail : msds@kemetyl.com
Website : www.kemetyl.pl

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

PL - Telephone : +48 22 822 5390 (During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Not classified as dangerous according to Regulation (EC) No 1272/2008.

(1272/2008/EC)

Human health hazards : Low hazard for usual industrial or commercial handling.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

2.2. Label elements

Label elements (1272/2008/EC): Hazard pictograms: None.

Signal word : Not applicable.

H- and P-phrases : None.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms : None.

Signal word : Not applicable.

H- and P-phrases : None.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|----------------------------|----------------------------|----------|-----------|--------|------------------|
| 2,2' -Oxybisethanol | 15 - < 45 | 111-46-6 | 203-872-2 | | 01-2119457857-21 |
| 2-(2-Methoxyethoxy)ethanol | 0,4 - < 2,5 | 111-77-3 | 203-906-6 | | 01-2119475100-52 |

| Substance name | Hazard Class | H-phrases | Pictograms | |
|----------------------------|--------------|-----------|------------|------------------|
| 2,2' -Oxybisethanol | Acute Tox. 4 | H302 | GHS07 | |
| 2-(2-Methoxyethoxy)ethanol | Repr. 1B | H360D | GHS08 | H360D : C >= 3 % |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries

: Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists. Eye contact : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth Ingestion

to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness.

Skin contact : May cause dry skin.

May cause stinging of eyes and redness. Eye contact

May cause a feeling of sickness, vomiting and diarrhoea. Ingestion

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.

Not suitable : Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

5.3. Advice for firefighters

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Special protective equipment for fire-fighters

: Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles.

6.2. Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water. In case of large spills:

contain with dike.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an

authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections: See also section 8.

SECTION 7 HANDLING AND STORAGE

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7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place. Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container.

Non recommended

packaging

: None known.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Occupational exposure

limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m3) | STEL 15 min (mg/m3) | Comments | Source |
|----------------------------|---------|--------------------|------------------------|----------|----------------------|
| 2,2' -Oxybisethanol | GB | 101 | - | - | |
| 2,2' -Oxybisethanol | İ | 10 | - | | MAC: BG, PL |
| 2-(2-Methoxyethoxy)ethanol | EC | 50,1 | - | skin | Directive 2006/15/EG |
| 2-(2-Methoxyethoxy)ethanol | GB | 50,1 | - | Skin | |

Derived no-effect level (DNEL) for workers:

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| Chemical name | Route of | DNEL, short-term | | DNEL, long-term | |
|----------------------------|------------|------------------|-----------------|-----------------|-------------------|
| | exposure | | | | |
| | · | Local effect | Systemic effect | Local effect | Systemic effect |
| 2,2' -Oxybisethanol | Inhalation | | | 60 mg/m3 | 44 mg/m3 |
| | Dermal | 1 | ĺ | | 43 mg/kg bw/day |
| 2-(2-Methoxyethoxy)ethanol | Inhalation | | | | 50.1 mg/m3 |
| | Dermal | | | | 2.22 mg/kg bw/day |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of | DNEL, short-to | DNEL, short-term | | DNEL, long-term | |
|----------------------------|------------|----------------|------------------|--------------|-------------------|--|
| | exposure | | | | | |
| | , | Local effect | Systemic effect | Local effect | Systemic effect | |
| 2,2' -Oxybisethanol | Inhalation | | | 12 mg/m3 | 12 mg/m3 | |
| | Dermal | | | | 21 mg/kg bw/day | |
| 2-(2-Methoxyethoxy)ethanol | Inhalation | | | | 30.1 mg/m3 | |
| | Dermal | | | | 1.33 mg/kg bw/day | |
| | Oral | Ī | | | 7.5 mg/kg bw/day | |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|----------------------------|--------------------|-------------|--------------|-----------------|
| 2,2' -Oxybisethanol | Water | 10 mg/l | 1 mg/l | |
| | Sediment | 20,9 mg/kg | 2.09 mg/kg | |
| | Intermittent water | | | 10 mg/l |
| | STP | | | 199,5 mg/l |
| | Soil | | | 1,53 mg/kg |
| 2-(2-Methoxyethoxy)ethanol | Water | 12 mg/l | 1.2 mg/l | |
| | Sediment | 44.4 mg/kg | 0.44 mg/kg | |
| İ | Intermittent water | | | 12 mg/l |
| | STP | | | 10000 mg/l |
| | Soil | | | 2.1 mg/kg |
| | Oral | | | 0.09 mg/kg food |

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working

with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to

exposure to carcinogens or mutagens at work.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale

exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance

with EN 140.

Hand protection : Under normal conditions of use specific gloves are not required.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Colour : Yellow.
Odour : Characteristic.

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Odour threshold : Not known. рΗ 7 - 11,5 Solubility in water Soluble. : Not known.

Partition coefficient (n-oc-

tanol/water)

: > 123 °C Flash point

Flammability (solid, gas) Not applicable.

Auto ignition temperature 322 °C Boiling point/boiling range 230 - 270 °C Melting point/melting range: < -70 °C

Explosive properties Not an explosive.

Explosion limits (% in air) Not known.

Upper explosion limit in air (%): 37 (2,2' -Oxybisethanol) Oxidising properties

Does not contain oxidizing substances. Not applicable.

(air = 1)

Liquid.

Closed cup.

Liquid. See flashpoint.

Not measured. Not relevant for mixtures.

Lower explosion limit in air (%): 0,7 (2,2' -Oxybisethanol)

Decomposition temperature : Not applicable. Viscosity (20°C) Not known. : ≤ 180 mm2/sec Viscosity (40°C) : Not known. Vapour pressure (20°C)

Relative vapour density : >1

Relative density (20°C) : 1,07 g/ml

Particle characteristics : Not applicable.

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

: No other hazardous reactions known. Reactivity

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

SECTION 11 TOXICOLOGICAL INFORMATION

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

No toxicological research has been carried out on this product.

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Inhalation

Acute toxicity : Calculated LC50: 0,434 mg/l. Ingredients of unknown toxicity: 71 %. ATE: > 5 mg/l. Not classified -

based on available data, the classification criteria are not met. May cause headache, dizziness and

a feeling of sickness.

Corrosion/irritation :

: Not classified - based on available data, the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Prolonged contact may dry out and defat the skin. Not classified - based on available data, the

classification criteria are not met.

Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Eye contact

Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Ingestion

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain

substances with an aspiration hazard.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Reprotoxicity : Development: Not classified - Based on available data, the classification criteria are not met.

Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the

classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting

: Not applicable.

properties

Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 9180 mg/l. Calculated EC50 (waterflea): 87 mg/l. Contains 0 % of

components with unknown hazards to the aquatic environment. Not classified - based on available

data, the classification criteria are not met.

12.2. Persistence and degradability

 $\label{eq:persistence-degradability} \ : \ \ No \ specific \ information \ known.$

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12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting

: Not applicable.

properties

12.7. Other adverse effects

Other adverse effects : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues and non-empty pack as chemical waste. Dispose waste to an official chemical

waste depot.

: None.

Additional warning

Waste water discharge

: Do not dispose of into the environment, drains, sewers or water courses.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

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14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other

regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety : Not applicable.

assessment

SECTION 16 OTHER INFORMATION

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16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

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

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

IATA : International Air Transport Association
IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

UFI : Unique formula identifier

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VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Not classified : Based on test methods, experts judgement, bridging principles and calculation methods.

Full text of hazard classes mentioned in section 3:

Acute Tox. 4 : Acute toxicity, category 4.

Repr. 1B : Reproductive toxicity, hazard category 1B.

Full text of H-phrases mentioned in section 3:

H302 Harmful if swallowed.

H360D May damage the unborn child.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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