

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 18-7-2018 Revision date: 29-7-2020 Supersedes: 18-7-2018 Version: 2.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Drauliquid DOT 5.1

Product code : 09.40.03 Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : brake fluids

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon Oil BV
Dollegoorweg 15
7602 EC Almelo - Netherlands
T 0031 (0)546 81 81 65
vib@kroon-oil.nl

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 2 H361

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Signal word (CLP) : Warning

Hazardous ingredients : Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate
Hazard statements (CLP) : H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P201 - Obtain special instructions before use.

P280 - Wear protective clothing, protective gloves, eye protection. P308+P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic

reaction.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|-------|---|
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | (CAS-No.) 30989-05-0 (EC-No.) 250-418-4 (REACH-no) 01-2119462824-33 | < 100 | Repr. 2, H361d |
| Dihydro-3-(tetrapropenyl)furan-2,5-dione | (CAS-No.) 26544-38-7 (EC-No.) 247-781-6 (REACH-no) 01-2119979080-37 | < 0,1 | Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 4, H413 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Gently wash with plenty of soap and water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : Inhalation may affect the nervous system causing headache, possibly dizziness, nausea,

weakness, loss of coordination and unconsciousness.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

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

Treat symptomatically.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Incomplete combustion releases dangerous carbon

monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment. Obtain special instructions before use. Do not handle until

all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

29-7-2020 (Version: 2.0) EN (English) 3/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

| Hand protection: | | | | | |
|-------------------|----------------------|-------------------|----------------|-------------|------------|
| Protective gloves | | | | | |
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥ 0.35 | | EN ISO 374 |

| Eye protection: | | | | |
|-----------------|---------|-----------------|----------|--|
| Safety glasses | | | | |
| Туре | Use | Characteristics | Standard | |
| Safety glasses | Droplet | clear | EN 166 | |

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):





Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : clear.

Relative evaporation rate (butylacetate=1) : No data available

Melting point : <-50 °C

Partition coefficient n-octanol/water (Log Pow)

Freezing point : No data available : > 260 °C (760 mm Hg) Boiling point : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available : 1,02 - 1,09 kg/l @20°C Density : No data available Solubility

: No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Viscosity, kinematic : 15 mm²/s @20°C
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

Carcinogenicity

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0) | | |
|---|-------------------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight | |
| LD50 dermal rat | > 2000 mg/kg bodyweight | |

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

: Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight/day

Aspiration hazard : Not classified

Drauliquid DOT 5.1

Viscosity, kinematic 15 mm²/s @20°C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term :

(chronic)

: Not classified

: Not classified

| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0) | | |
|---|------------|--|
| LC50 fish | 222,2 mg/l | |
| EC50 Daphnia | 211,2 mg/l | |
| EC50 72h algae (1) | 224,2 mg/l | |
| NOEC chronic algae | 224,2 mg/l | |

12.2. Persistence and degradability

| Drauliquid DOT 5.1 |
|---------------------------|
|---------------------------|

Persistence and degradability Biodegradable.

12.3. Bioaccumulative potential

| Tris[2-[2-(2-methoxy | rethoxy)ethoxy | lethvll orthoborate | (30989 - 05 - 0) |
|----------------------|----------------|---------------------|------------------|
| | | | |

Partition coefficient n-octanol/water (Log Pow) 1 @20°C

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 16 01 13* - brake fluids

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

29-7-2020 (Version: 2.0) EN (English) 6/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| ADR | IMDG | IATA | ADN | RID | |
|--|---------------|---------------|---------------|---------------|--|
| 14.1. UN number | | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.2. UN proper shipping name | | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.3. Transport hazard class(es) | | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.4. Packing group | | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.5. Environmental hazards | | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated | |
| No supplementary information available | | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| The following res | The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | | |
|-------------------|--|--|--|
| Reference code | Applicable on | | |
| 3(b) | Drauliquid DOT 5.1; Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate; Dihydro-3-(tetrapropenyl)furan-2,5-dione | | |
| 3(c) | Dihydro-3-(tetrapropenyl)furan-2,5-dione | | |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Child-resistant fastening : Not applicable Tactile warning : Applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 16: Other information

| Indication of changes: | ndication of changes: | | | | |
|------------------------|---|----------|----------|--|--|
| Section | Changed item | Change | Comments | | |
| 2.1 | Adverse physicochemical, human health and environmental effects | Modified | | | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | | | |
| 2.2 | Precautionary statements (CLP) | Modified | | | |
| 2.2 | EUH-statements | Added | | | |
| 2.2 | Hazard pictograms (CLP) | Modified | | | |
| 2.2 | Hazard statements (CLP) | Modified | | | |
| 3 | Composition/information on ingredients | Modified | | | |
| 4.1 | First-aid measures after skin contact | Modified | | | |
| 4.1 | First-aid measures after ingestion | Modified | | | |
| 4.1 | First-aid measures general | Added | | | |
| 6.3 | Methods for cleaning up | Modified | | | |
| 7.1 | Precautions for safe handling | Modified | | | |
| 7.2 | Storage conditions | Modified | | | |
| 8.2 | Respiratory protection | Modified | | | |
| 9.1 | Density | Added | | | |
| 9.1 | Viscosity, kinematic | Modified | | | |
| 9.1 | рН | Modified | | | |
| 13.1 | European List of Waste (LoW) code | Modified | | | |
| 16 | Abbreviations and acronyms | Modified | | | |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LD50 | Median lethal dose |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| LC50 | Median lethal concentration |
|---------|---|
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | Sewage treatment plant |
| TLM | Median Tolerance Limit |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| BLV | Biological limit value |
| CAS-No. | Chemical Abstract Service number |
| EC-No. | European Community number |
| EN | European Standard |
| OEL | Occupational Exposure Limit |
| WGK | Water Hazard Class |

| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Repr. 2 | Reproductive toxicity, Category 2 | |
| Skin Sens. 1A | Skin sensitisation, category 1A | |
| H317 | May cause an allergic skin reaction. | |
| H319 | Causes serious eye irritation. | |
| H361 | Suspected of damaging fertility or the unborn child. | |
| H361d | Suspected of damaging the unborn child. | |
| H413 | May cause long lasting harmful effects to aquatic life. | |
| EUH208 | Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction. | |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.