

SAFETY DATA SHEET



In accordance with 1907/2006 annex II and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)

Amendment date 2023-12-18

Replaces SDS issued 2023-12-01

Revision date 2023-12-01

Version number 2.1

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

1.1. Product identifier

Trade name TRIBORON TWO-STROKE FORMULA CONCENTRATE 2.0

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

Identified uses 2-stroke oil

1.3. Details of the supplier of the safety data sheet

Company Triboron International AB
Gunnebogatan 34
SE-163 53 Spånga
Sweden
Telephone 08-64 31 000
E-mail info@triboron.com

1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Upon assessment, this mixture is not classified as hazardous according to 1272/2008

2.2. Label elements

Hazard pictogram	Not applicable
Signal word	Not applicable
Hazard statement	Not applicable
Precautionary statement	Not applicable

Supplemental hazard information

EUH210 Safety data sheet available on request.

EUH208 Contains C14-16-18 ALKYL PHENOL. May produce an allergic reaction.

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
1,3-DIPROPYLCYCLOHEXANE; 2-METHYLUNDECANE; UNDECANE		
EC No: 926-141-6 REACH: 01-2119456620-43	Asp. tox. 1; EUH066, H304	30 - 40 %
2-BUTOXYETHANOL		
CAS No: 111-76-2 EC No: 203-905-0 Index No: 603-014-00-0	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331, H302, H315, H319 <i>Specific concentration limits and acute toxicity estimates (ATE):</i> <i>ATE: 1200 mg/kg Orally</i> <i>ATE: 3 mg/l Inhalation (vapours)</i>	<3 %
C14-16-18 ALKYL PHENOL		
EC No: 931-468-2 REACH: 01-2119498288-19	Skin. Sens. 1B, STOT RE 2; H317, H373	<1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact

Remove contaminated clothing.
Wash the skin with soap and water.
If symptoms occur, contact a physician.

Upon ingestion

Rinse nose, mouth and throat with water.
Get medical attention if you feel unwell.

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

Upon skin contact

Allergic reactions can occur in sensitized individuals.

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

Symptomatic treatment.
When contacting a physician, take this SDS with you.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

Hazardous combustion products:.

- Carbon oxides.
- Metal oxides.
- Nitrogen oxides.
- Sulphur oxides.

5.3. Advice for firefighters

Protective measures to be taken with regard to other materials at the scene of the fire .

In case of fire use proper breathing apparatus.

Wear full protective clothing.

Cool closed containers that were exposed to fire with water.

Contain and collect extinguishing liquid.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized and unprotected people at a safe distance.

Avoid inhalation and exposure to skin and eyes.

Note that there is a risk of slipping if product is leaking/spilling.

Ensure good ventilation.

Use recommended safety equipment, see section 8.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

6.3. Methods and material for containment and cleaning up

Minor spills can be cleaned up with a cloth and alcohol. For larger spills wall in with an absorbent inert material, e.g. vermiculite and collect. The collected material should be handled according to section 13.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Take the necessary preventive and protective measures for safe handling.

Avoid inhalation and contact with skin and eyes.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is handled.

Wash your hands after using the product.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Keep away from incompatible products.

Use recommended safety equipment, see section 8.

Implement appropriate engineering controls if necessary, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Take the necessary preventive and protective measures for safe storage.

Keep out of reach for children.

To be stored away from food and animal fodder and away from devices or surfaces that are in contact with those items.

Store tightly, in original packaging.

Always use sealed and visibly labeled packages.

Store in dry and cool area.

Store in a well-ventilated space.

Keep away from heat and sunlight.

Do not store close to incompatible materials (see section 10.5).

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

2-BUTOXYETHANOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 25 ppm / 123 mg/m³

Short term exposure limit (STEL) 50 ppm / 246 mg/m³

Note Sk, BMGV

Explanations of abbreviations are given in Section 16b

DNEL

No data available.

PNEC

No data available.

8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source.

Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

Use dust protective glasses when handling may create dust.

Skin protection

Wear suitable protective clothing when necessary.

Wear protective gloves (EN 374) upon repeated or prolonged exposure.

During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.

The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.

The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.

Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:

– A/P2.

8.2.3. Environmental exposure controls

For limiting environmental exposure, see section 12.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	liquid
	Form: liquid
(b) Colour	orange
(c) Odour	characteristic
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	Not indicated
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	30.6 mm ² /s (40°C)
(m) Solubility	Solubility in water: Insoluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	Not indicated
(p) Density and/or relative density	0.87 g/cm ³
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

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

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

Acute toxicity

The product is not classified as acutely toxic.

1,3-DIPROPYLCYCLOHEXANE; 2-METHYLUNDECANE; UNDECANE

LD50 rabbit 24h: > 5000 mg/kg Dermally

LD50 rat 24h: > 5000 mg/kg Orally

LD50 rat 4h: > 20 mg/l Inhalation

2-BUTOXYETHANOL

LD50 Guinea pig 24h: 1414 mg/kg Orally
LC0 Guinea pig 24h: > 2000 mg/kg Dermally
ATE : 1200 mg/kg Orally
ATE : 3 mg/l Inhalation (vapours)

Skin corrosion/irritation

The product is not classified for skin corrosion/irritation.

Serious eye damage/irritation

The product is not classified for serious eye damage/eye irritation.

Respiratory or skin sensitisation

The product is not classified as sensitising.
May cause an allergic reaction in sensitised people.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information is available.

11.2.2. Other information

Not indicated.

SECTION 12: Ecological information

12.1. Toxicity

The product is not to be labelled as an environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.
Prevent release on land, in water and drains.

1,3-DIPROPYLCYCLOHEXANE; 2-METHYLUDECANE; UNDECANE

NOEC Freshwater water flea (*Daphnia magna*) 21d: 0.097 mg/l
LL0 Rainbow trout (*Oncorhynchus mykiss*) 96h: 1000 mg/l
EL0 Freshwater water flea (*Daphnia magna*) 48h: 1000 mg/l
EL50 Freshwater water flea (*Daphnia magna*) 48h: 22 mg/l
EL50 Algae 72h: 100 mg/l

2-BUTOXYETHANOL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 1474 mg/l
EC50 Freshwater water flea (*Daphnia magna*) 48 h: 1550 mg/l
ErC50 Algae 72h: 1840 mg/l
NOEC Freshwater water flea (*Daphnia magna*) 21d: 100 mg/l

12.2. Persistence and degradability

The product contains certain components which are easily degradable.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

No information is available.

12.7. Other adverse effects

Data lacking.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste handling of the product

Avoid discharge into sewers.

The product is not classified as hazardous waste.

Empty, rinsed packaging is sent for recycling where practicable.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number or ID number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Other transport information

Not applicable

SECTION 15: Regulatory information

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

Not indicated.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

Earlier versions

2023-12-01 Changes in section(s) 1.

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Asp. tox. 1	Aspiration hazard, Hazard Category 1 - Asp. tox. 1, H304 - May be fatal if swallowed and enters airways
Acute Tox. 3	Acute toxicity (inhal.), Hazard Category 3 - Acute Tox. 3, H331 - Toxic if inhaled
Acute Tox. 4	Acute toxicity (oral), Hazard Category 4 - Acute Tox. 4, H302 - Harmful if swallowed
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2 - Skin Irrit. 2, H315 - Causes skin irritation
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2 - Eye Irrit. 2, H319 - Causes serious eye irritation
Skin. Sens. 1B	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1B - Skin. Sens. 1B, H317 - May cause an allergic skin reaction
STOT RE 2	Specific target organ toxicity — Repeated exposure, Hazard Category 2 - STOT RE 2, H373 - May cause

damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>

Explanations of the abbreviations in Section 8

United Kingdom

- Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity
- BMGV Biological monitoring guidance values

Explanations of the abbreviations in Section 14

- ADR European Agreement concerning the International Transport of Dangerous Goods by Road
- RID Regulations concerning the International Transport of Dangerous Goods by Rail
- IMDG International Maritime Dangerous Goods Code
- ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
- IATA The International Air Transport Association

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2023-12-18.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- 2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

- EUH066 Repeated exposure may cause skin dryness or cracking
- H304 May be fatal if swallowed and enters airways
- H331 Toxic if inhaled
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

Not indicated.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se