

SAFETY DATA SHEET

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

1.1 Product identifier:

TRIBORON TWO-STROKE FORMULA CONCENTRATE

Reach registration nr:

01-2119456620-43 (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics)

01-2119457610-43 (Ethanol)

01-2119486683-25 (Boric acid)

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

Identified uses:

Fuel additive.

Uses advised against:

No information available.

1.3 Details of the supplier of the safety data sheet:

Triboron International AB, Stenhuggarvägen 4V, 132 38 SALTSJÖ-BOO, SWEDEN

Tel: +46 8 643 10 00

e-mail: info@triboron.com

1.4 Emergency telephone number:

In case of personal injury call +46 11 24 84 84 Swed Handling AB for further information about the product.

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to CLP 1272/2008/EC:

Asp. Tox. 1; H304

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H-statements in full text are found in chapter 16.

Vapors may cause irritation, headache, dizziness and have effects on the central nervous system. Repeated exposure may cause skin dryness or cracking. Splashes in the eyes can cause discomfort.

Already small amounts of the product which, when swallowed or vomited, are drawn into the respiratory tract causes cough and possibly difficulty breathing. Chemical pneumonia can occur within a day.

2. HAZARD IDENTIFICATION

2.2 Label elements:

Hazard symbol:



Signal Word:

DANGER

Hazard Statement:

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P102 Keep out of reach of children.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P501 Dispose of contents/container to according to local regulations.

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Chemical name	CAS-nr	EG-nr	Wt-%	Classification 1272/2008:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		926-141-6	30-40	Asp. Tox. 1; H304
Ethanol	64-17-5	200-578-6	1-3	Flam. Liq. 2; H225 Eye Irrit. 2; H319
Boric acid	11113-50-1	234-343-4	< 5.5	Repr. 1B; H360FD

H-statements in full text are found in chapter 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

General advise:

Instantly remove contaminated clothing.

If inhaled:

Move the affected person to fresh air and let rest.

In case of skin contact:

Wash with plenty of water and soap. In case of skin irritation, seek medical attention.

In case of eye contact:

Immediately flush with plenty of water for at least 5 minutes. If easy to do, remove contact lenses. In case of persistent pain (intense pain, sensitivity to light, visual symptoms) continue to flush and get medical attention.

If swallowed:

DO NOT INDUCE VOMITING. May cause chemical pneumonia if product enters lungs. If possible, give cream or otherwise a couple of glasses of milk or water if the injured person is fully conscious. Get medical attention.

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

Symptoms & Effects:

No information available.

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

Treat symptomatically. Make sure that medical personnel know what substances are involved. Do not induce vomiting. Perform gastric lavage only after endotracheal intubation. Check the heart, risk of cardiac arrhythmia.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam, CO₂, fire extinguishing powder or fog like water spraying.

Unsuitable extinguishing media:

Water jet and foam with harmful environmental substances.

5.2 Special hazards arising from the substance or mixture:

Special fire fighting risks:

Avoid inhalation of gases.

5. FIREFIGHTING MEASURES

5.3 Advice for firefighters:

Special safety equipment for firefighters:

Wear self contained breathing apparatus and full protective clothing.

Further information:

Evacuate the area surrounding the fire. Cool surfaces exposed to fire with water. Remove material that can burn. Prevent entry to water and sewage system. Take care of extinguishing water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Use appropriate protective clothing according to chapter 8. Only stop leakage if it can occur without any risk. Enter contaminated area with caution Ventilate any vapors.

6.2 Environmental precautions:

Prevent product to enter water and drains. Inform authorities if there is any risk for environmental damage.

6.3 Methods and materials for containment and cleaning up:

Absorb with vermiculite, sand, or other inert material suitable for chemical spill. Dispose the collected material according to regulations.

6.4 Reference to other sections:

Contact information in case of emergency (see section 1), Personal protection (see section 8), Waste treatment (see section 13).

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

See section 8 for personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Emergency shower and emergency eye-wash must be available at the work place.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in dry, ventilated storage in closed original containers. Do not store above room temperature. Keep container tightly closed when not in use. The product is not flammable. Keep away from food, drinks and animal feed.

7.3 Specific end uses:

No information available.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters:

Exposure limit:

Decane and other high aliphatic hydrocarbons	350 mg/m ³ (NGV), 500 mg/m ³ (KGV)
Ethanol	500 ppm, 1000 mg/m ³ (NGV) / 1000 ppm, 1900 mg/m ³ (KGV)
Borax, total dust	2 mg/m ³ (NGV), 5 mg/m ³ (KGV)

(”Nationella hygieniska gränsvärden”, AFS 2015:7)

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.2 Exposure controls:

Appropriate engineering controls:

See safety precautions in section 7 and 8.

Personal protective equipment:

Respiratory protection: Respiratory protection with gas filter A or breathing apparatus.

Hand protection: Use protective gloves of nitrile rubber, PVA or viton.

Eye protection: In case of direct contact or splash, use eye protection.

Skin protection: Suitable protective clothing.

Exposure controls for the environment:

Do not let product enter water or drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

<i>Form:</i>	Oily liquid
<i>Colour:</i>	Colorless
<i>Odour:</i>	Hydrocarbons
<i>Odour treshold:</i>	No information available
<i>pH:</i>	No information available
<i>Melting point/ freezing point:</i>	No information available
<i>Initial boiling point and boiling range:</i>	No information available
<i>Flash point:</i>	No information available
<i>Evaporation rate:</i>	No information available
<i>Flammability (solid, gas):</i>	No information available
<i>Upper/ lower flammability or explosive limits:</i>	No information available
<i>Vapour pressure:</i>	No information available
<i>Vapour density:</i>	No information available
<i>Relative density:</i>	No information available
<i>Bulk density</i>	No information available
<i>Solubilty:</i>	Insoluble with water
<i>Partition coefficient: n-octanol/ water:</i>	No information available
<i>Autoignition temperature:</i>	No information available
<i>Decomposition temperature:</i>	No information available
<i>Viscosity:</i>	No information available
<i>Explosive properties:</i>	No information available
<i>Oxidizing properties:</i>	No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2 Other information

No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity:

Stable at normal conditions.

10.2 Chemical stability:

Stable at normal conditions.

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Contact with strong oxidizing agents and strong acids.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

In case of fire or strong heating, carbon monoxide (CO) and carbon dioxide (CO₂) are formed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:

LD₅₀, oral, rat: > 5 000 mg/kg

LD₅₀, dermal, rabbit: > 5 000 mg/kg

LC₅₀, inhal., rat, 4 h: > 20 mg/l

Information above is for hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Inhalation: Inhalation of high concentrations may cause headache, dizziness, fatigue and nausea

Ingestion: May cause vomiting which can result in chemical pneumonia when solvents enter the lungs. May cause the same symptoms as inhalation. Ingestion of large amounts can lead to unconsciousness.

Irritation and corrosion:

Inhalation: Inhalation of high concentrations may irritate the respiratory system.

Eyes: May cause pain and redness.

Skin: Repeated exposure may cause redness, itching, skin dryness or cracking.

Ingestion: May cause irritation of gastrointestinal tract, vomiting and diarrhea.

Respiratory or skin sensitization:

No known risks, but the dehydrating effect of the product may possibly contribute to atopic eczema.

Carcinogenicity:

No known risks.

11. TOXICOLOGICAL INFORMATION

Mutagenicity:

No known risks.

Reproductive toxicity:

No known risks.

Teratogenicity:

No information available.

Specific target organ toxicity, single exposure (STOT SE):

No information available.

Specific organ toxicity, repeated exposure (STOT RE):

No information available.

Aspiration hazard:

Chemical pneumonia.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

LL0, fish, 96 h:	1 000 mg/l	(Oncorhynchus mykiss)
EL0, daphnia, 48 h:	1 000 mg/l	(Daphnia magna)
EL0, alga, 72 h:	1 000 mg/l	(Pseudokirchneriella subcapitata)

12.2 Persistence and degradability:

The product is easy biodegradable. BOD 69% after 28 days.

12.3 Bioaccumulative potential:

The product evaporates quickly.

Log Pow: 6-8.2

Bioaccumulation is expected.

12.4 Mobility in soil:

No information available.

12.5 Results of PBT and vPvB assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects:

None known.

Information above is for hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Eliminate waste in conditions authorized by the regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous goods.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:
Regulation (EU) No 1272/2008, CLP: Two Stroke Formula Concentrate sold to the public must have a tactile warning label.

15.2 Chemical Safety Assessment: No information available.

16. OTHER INFORMATION

Whilst every care has been taken in the preparation of this SDS, the same has been produced from information and data currently available to Swed Handling at the date hereof; however, Swed Handling cannot be responsible for any errors or omissions. If in any doubt, please consult Swed Handling.

Text of H-statements mentioned in section 2 and 3:

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H360FD May damage fertility. May damage the unborn child.