

# ANTIFREEZE CONCENTRATE

## MATERIAL SAFETY DATA SHEET

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

#### 1.1. Product identifier

Product form: Mixture  
Product name: Antifreeze Concentrate  
Product code: 514

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

##### 1.2.1. Relevant identified uses

Intended for general public

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Fast Racing Fuels  
20 Brand Road, Brand Park, Unit 6, Westmead, Durban, South Africa, 3610  
T +27 (67) 777 2000  
info@fastracingfuels.co.za - www.fastracingfuels.co.za

#### 1.4. Emergency number: +27 (67 ) 777 2000

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302

Full text of H statements: See section 16

Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP):



GHS07

Signal word (CLP):

Contains:

Hazard statements (CLP):

Precautionary statements (CLP):

Warning

ethanediol, ethylene glycol

H302 - \_H\_302\_EU.

P264 - \_P\_264\_EU.

P270 - \_P\_270\_EU.

P301+P312 - \_P\_301-312\_4\_EU.

P330 - \_P\_330\_EU.

P501 - \_P\_501\_EU.

## 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]
ethanediol, ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1	50 – 100	Acute Tox. 4 (Oral), H302
disodium tetraborate, decahydrate	(CAS-No.) 1303-96-4 (EC-No.) 215-540-4 (EC Index-No.) 005-011-01-1	2 – 2.5	Repr. 1B, H360FD

Full text of H-statements: see section 16

Specific concentration limits:

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
disodium tetraborate, decahydrate	(CAS-No.) 1303-96-4 (EC-No.) 215-540-4 (EC Index-No.) 005-011-01-1	( 8.5 ≤C < 100) Repr. 1B, H360FD

Full text of H-statements: see section 16

## **SECTION 4: FIRST AID MEASURES**

### **4.1. Description of first aid measures**

No additional information available

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

No additional information available

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

No additional information available

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

No additional information available

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

No additional information available

### **5.3. Advice for firefighters**

No additional information available

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel**

No additional information available

**6.1.2. For emergency responders**

No additional information available

**6.2. Environmental precautions**

No additional information available

**6.3. Methods and material for containment and cleaning up**

No additional information available

**6.4. Reference to other sections**

No additional information available

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

No additional information available

**7.2. Conditions for safe storage, including any incompatibilities**

No additional information available

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

disodium tetraborate, decahydrate (1303-96-4)	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
ThOD	6 mg/m <sup>3</sup>
<b>France - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Inhalable fraction)
ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (Inhalable fraction)

## 8.2. Exposure controls

No additional information available

## 6.2. Environmental precautions

No additional information available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	No data available
Odour:	No data available characteristic.
Odour threshold:	No data available
pH:	≈ 8
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	≈ -12.4 °C
Freezing point:	No data available
Boiling point:	≈ 160 °C
Flash point:	≈ 120 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	≈ 1.2 hPa
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Lower explosive limit (LEL):	≈ 3.2 vol %
Upper explosive limit (UEL):	≈ 53 vol %

## 9.2. Other information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity (oral):	_H_302_EU.
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified

<b>Summer Coolant &amp; Antifreeze</b>	
ATE CLP (oral)	500 mg/kg bodyweight

<b>disodium tetraborate, decahydrate (1303-96-4)</b>	
LD50 oral rat	2660 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)

Skin corrosion/irritation:	Not classified
	pH: ≈ 8
Serious eye damage/irritation:	Not classified
	pH: ≈ 8
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Acute aquatic toxicity:	Not classified
Chronic aquatic toxicity:	Not classified

disodium tetraborate, decahydrate (1303-96-4)	
LC50 fish 1	100 – 1000 mg/l (96 h, Pisces)
LC50 fish 2	1900 mg/l (Pimephales promelas)
EC50 Daphnia 1	141 mg/l (48 h, Daphnia magna)
EC50 96h algae (1)	158 mg/l (Scenedesmus subspicatus, Anhydrous form)

### 12.2. Persistence and degradability

disodium tetraborate, decahydrate (1303-96-4)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

disodium tetraborate, decahydrate (1303-96-4)	
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

disodium tetraborate, decahydrate (1303-96-4)	
Ecology - soil	Adsorbs into the soil. May be harmful to plant growth, blooming and fruit formation.

### 12.5. Results of PBT and vPvB assessment

<b>Component</b>	
disodium tetraborate, decahydrate (1303-96-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

### 12.6. Other adverse effects

No additional information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: TRANSPORT INFORMATION

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

### 14.1. UN number

UN-No. (ADR):	Not applicable
UN-No. (IMDG):	Not applicable
UN-No. (IATA):	Not applicable
UN-No. (ADN):	Not applicable
UN-No. (RID):	Not applicable



#### 14.2. UN proper shipping name

Proper Shipping Name (ADR):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable
Proper Shipping Name (ADN):	Not applicable
Proper Shipping Name (RID):	Not applicable

#### 14.3. Transport hazard class(es)

ADR	
Transport hazard class(es) (ADR):	Not applicable

IMDG	
Transport hazard class(es) (IMDG):	Not applicable

IATA	
Transport hazard class(es) (IATA):	Not applicable

ADN	
Transport hazard class(es) (ADN):	Not applicable

RID	
Transport hazard class(es) (RID):	Not applicable

#### 14.4. Packing group

Packing group (ADR):	Not applicable
Packing group (IMDG):	Not applicable
Packing group (IATA):	Not applicable
Packing group (ADN):	Not applicable
Packing group (RID):	Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment:	No
Marine pollutant:	No
Other information:	No supplementary information available

#### 14.6. Special precautions for user

Overland transport	Not applicable
Transport by sea	Not applicable
Air transport	Not applicable
Inland waterway transport	Not applicable
Rail transport	Not applicable

#### 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

Contains no REACH substances with Annex XVII restrictions.

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1303-96-4).

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

##### 15.1.2. National regulations

Germany

Employment restrictions:	Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK):	WGK 1, low hazard to waters (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV):	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen:	None of the components are listed
SZW-lijst van mutagene stoffen:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid:	disodium tetraborate, decahydrate is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling:	disodium tetraborate, decahydrate is listed

Denmark

Classification remarks:	Emergency management guidelines for the storage of flammable liquids must be followed
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## 15.2. Chemical safety assessment

No additional information available

### SECTION 16: OTHER INFORMATION

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)  
Repr. 1B  
H302  
H360FD

Acute toxicity (oral), Category 4  
Reproductive toxicity, Category 1B  
\_H\_302\_EU  
\_H360-FD\_EU

### DISCLAIMER

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