

# **RADIATIOR FLUSH**

# 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: Radiator Flush

Product code: 511

## 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]

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 1 H318

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): Danger

Contains: tetrasodium ethylenediaminetetracetate, tetrahydrate

Hazard statements (CLP):

H315 - \_H\_315\_EU.

H318 - \_H\_318\_2\_EU.

Precautionary statements (CLP): P264 - \_P\_264\_EU. P280 - \_P\_280\_2\_EU.

P302+P352 - \_P\_302-352\_2\_EU.

P305+P351+P338 - \_P\_305-351-338\_2\_EU.

P310 - \_P\_310\_2\_EU.

P321 - \_P\_321\_EU.

P332+P313 - \_P\_332-313\_EU. P362+P364 - \_P\_362-364\_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]
tetrasodium ethylenediaminetetracetate, tetrahydrate	(CAS-No.) 13235-36-4 (EC-No.) 200-573-9 (EC Index-No.) 607-428-00-2	5 – 15	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
trisodium orthophosphate	(CAS-No.) 7601-54-9 (EC-No.) 231-509-8	3 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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

No additional information available

#### 8.2. Exposure controls

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: characteristic. Odour threshold: No data available

pH: ≈ 10.2

Relative evaporation rate (butylacetate=1): No data available Melting point: No data available Freezing point: No data available Boiling point: No data available No data available Flash point: Auto-ignition temperature: No data available No data available Decomposition temperature: Flammability (solid, gas): No data available Vapour pressure: No data available Relative vapour density at 20 °C: No data available Relative density: No data available



Density:  $\approx 1.09 \text{ g/cm}^3$ Solubility: No data available Partition coefficient n-octanol/water (Log Pow): No data available Viscosity, kinematic: No data available No data available Explosive properties: No data available No data available Explosive limits: No data available No data available No data available No data available

#### 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):

Acute toxicity (dermal):

Acute toxicity (inhalation):

Not classified

Not classified



dodecylbenzenesulphonic acid (27176-87-0)		
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)	
LC50 inhalation rat (mg/l)	> 0.83 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))	

Skin corrosion/irritation: \_H\_315\_EU. pH: ≈ 10.2 Serious eye damage/irritation: \_H\_318\_2\_EU. pH: ≈ 10.2 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

## **SECTION 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

Aspiration hazard:

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

trisodium orthophosphate (7601-54-9)		
LC50 fish 1	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Lethal)	
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h algae (1)	> 100 mg/l (EU Method C.3, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)	

Not classified

## 12.2. Persistence and degradability



tetrasodium ethylenediaminetetracetate, tetrahydrate (13235-36-4)	
Persistence and degradability	Not readily biodegradable in water.

trisodium orthophosphate (7601-54-9)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

# 12.3. Bioaccumulative potential

tetrasodium ethylenediaminetetracetate, tetrahydrate (13235-36-4)	
Bioaccumulative potential	No bioaccumulation data available.

trisodium orthophosphate (7601-54-9)	
Bioaccumulative potential	No bioaccumulation data available.

# 12.4. Mobility in soil

trisodium orthophosphate (7601-54-9)	
Surface tension	No data available (test not performed)
Ecology - soil	No (test)data on mobility of the substance available.

## 12.5. Results of PBT and vPvB assessment

Component	
trisodium orthophosphate (7601-54-9)	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):

Packing group (IMDG):

Packing group (IATA):

Packing group (ADN):

Packing group (ADN):

Not applicable

Not applicable

Not applicable

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 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. 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 2, significant hazard to waters (Classification

according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BlmSchV): Is not subject of the Hazardous Incident Ordinance

(12. BlmSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen:

SZW-lijst van mutagene stoffen:

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding:

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid:

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling:

None of the components are listed None of the components are listed

None of the components are listed

None of the components are listed

None of the components are listed

Denmark

Danish National Regulations: Young people below the age of 18 years are not

allowed to use the product

## 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: OTHER INFORMATION**

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

Eye Dam. 1 Serious eye damage/eye irritation, Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

Skin Irrit. 2 Skin corrosion/irritation, Category 2

STOT SE 3 Specific target organ toxicity — Single exposure,

Category 3, Respiratory tract irritation

H302 \_H\_302\_EU H315 \_H\_315\_EU

H318 \_\_H\_318\_2\_EU H319 \_\_H\_319\_EU

H335 \_\_H\_335\_EU



## **DISCLAIMER**

The results displayed in this data sheet have been acquired using the latest revision of the methods indicated unless stated otherwise and may not be reproduced (except in full) without the written approval of Fast Racing Fuels. This test report is computer generated so a signature/stamp is not necessary.



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