

## **DIESEL TREATMENT FOR FLEETS**

### 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: Diesel Treatment For Fleets  
Product code: 386

##### **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**

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity —	
Single exposure, Category 3, Narcosis	H336
Hazardous to the aquatic environment —	
Chronic Hazard, Category 2	H411

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):



Signal word (CLP):

Warning

Contains:

n-nonane; 2-ethylhexyl nitrate; cerium dioxide

Hazard statements (CLP):

H226 - \_H\_226\_EU.

H302 - \_H\_302\_EU.

H315 - \_H\_315\_EU.

H336 - \_H\_336\_EU.

H411 - \_H\_411\_EU.

Precautionary statements (CLP):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - \_P\_233\_EU.

P240 - \_P\_240\_2\_EU.

P241 - \_P\_241\_2\_EU.

P261 - \_P\_261\_EU.

P264 - \_P\_264\_EU.

P270 - \_P\_270\_EU.

P271 - \_P\_271\_EU.

P273 - \_P\_273\_EU.

P280 - \_P\_280\_2\_EU.

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

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

P303+P361+P353 - \_P\_303-361-353\_3\_EU.

P304+P340 - \_P\_304-340\_2\_EU.

P312 - \_P\_312\_4\_EU.

P321 - \_P\_321\_EU.

P330 - \_P\_330\_EU.

P332+P313 - \_P\_332-313\_EU.

P362+P364 - \_P\_362-364\_EU.

P370+P378 - \_P\_370-378\_2\_EU.

P391 - \_P\_391\_EU.

P403+P233 - \_P\_403-233\_EU.

P403+P235 - \_P\_403-235\_EU.

P405 - \_P\_405\_EU.

P501 - \_P\_501\_EU.

## 2.3. Other hazards

Contains vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII.

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-ethylhexyl nitrate	(CAS-No.) 27247-96-7 (EC-No.) 248-363-6	20 – 40	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
n-nonane	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	10 – 20	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cerium dioxide	(CAS-No.) 1306-38-3 (EC-No.) 215-150-4	1 – 5	Acute Tox. 4 (Oral), H302

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 n-nonane (111-84-2)**

Belgium - Occupational Exposure Limits

Limit value (mg/m<sup>3</sup>) 1065 mg/m<sup>3</sup>

Limit value (ppm) 200 ppm

France - Occupational Exposure Limits

VME (mg/m<sup>3</sup>) 1050 mg/m<sup>3</sup>

VME (ppm) 200 ppm

USA - ACGIH - Occupational Exposure Limits  
ACGIH TWA (ppm) 200 ppm

## 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:	No data available
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	≈ 151 °C
Flash point:	≈ 31 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	≈ 4.7 hPa
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Density:	≈ 0.888 g/cm <sup>3</sup>
Solubility:	Organic solvent: ≈ 68.9 g/100ml
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
Explosive limits:	0.7 – 5.6 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
Diesel Treatment for Fleet ATE CLP (oral)	1176.471 mg/kg bodyweight
n-nonane (111-84-2) LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	17 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Literature, Inhalation (vapours), 14 day(s))
2-ethylhexyl nitrate (27247-96-7) LD50 oral rat	> 9600 mg/kg (Other, Rat, Male/female, Experimental value)
cerium dioxide (1306-38-3) LD50 oral rat	1000 mg/kg (Rat, Oral)
Skin corrosion/irritation:	_H_315_EU.
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified

Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	_H_336_EU.
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Acute aquatic toxicity:	Not classified
Chronic aquatic toxicity:	_H_411_EU.
n-nonane (111-84-2)	
EC50 Daphnia 1	0.2 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
2-ethylhexyl nitrate (27247-96-7)	
LC50 fish 1	2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Experimental value)
EC50 Daphnia 1	> 12.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 (algae)	3.22 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)

### **12.2. Persistence and degradability**

n-nonane (111-84-2)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
2-ethylhexyl nitrate (27247-96-7)	
Persistence and degradability	Not readily biodegradable in water.

cerium dioxide (1306-38-3)

Persistence and degradability  
Chemical oxygen demand (COD)  
ThOD  
BOD (% of ThOD)

Biodegradability: not applicable.  
Not applicable  
Not applicable  
Not applicable

### 12.3. Bioaccumulative potential

n-nonane (111-84-2)

BCF other aquatic organisms 1  
Partition coefficient n-octanol/water (Log Pow)  
Bioaccumulative potential

105 (BCFBAF v3.00, Calculated value)  
5.65 (Literature)  
High potential for bioaccumulation (Log Kow > 5).

2-ethylhexyl nitrate (27247-96-7)

Partition coefficient n-octanol/water (Log Pow)  
Bioaccumulative potential

5.24 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)  
High potential for bioaccumulation (Log Kow > 5).

cerium dioxide (1306-38-3)

Bioaccumulative potential

No bioaccumulation data available.

### 12.4. Mobility in soil

n-nonane (111-84-2)

Surface tension  
Partition coefficient n-octanol/water (Log Koc)  
Ecology - soil

22.38 mN/m (25 °C)  
2.9 (log Koc, SRC PCKOCWIN v2.0, Calculated value)  
Low potential for adsorption in soil.

2-ethylhexyl nitrate (27247-96-7)

Partition coefficient n-octanol/water (Log Koc)  
Ecology - soil

3.75 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)  
Low potential for mobility in soil.

cerium dioxide (1306-38-3)

Ecology - soil

Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment Component

n-nonane (111-84-2)

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

2-ethylhexyl nitrate (27247-96-7)

This substance/mixture meets 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):	UN 2922
UN-No. (IMDG):	UN 2922
UN-No. (IATA):	UN 2922
UN-No. (ADN):	Not applicable
UN-No. (RID):	Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR):	CORROSIVE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable
Proper Shipping Name (ADN):	Not applicable
Proper Shipping Name (RID):	Not applicable
Transport document description (ADR):	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG):	UN 2922 , MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA):	UN 2922 , ENVIRONMENTALLY HAZARDOUS

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

ADR	
Transport hazard class(es) (ADR):	8 (6.1)
Danger labels (ADR):	8, 6.1



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

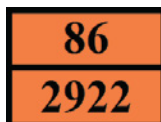
#### 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

Overland transport	
Classification code (ADR):	CT1
Special provisions (ADR):	274
Limited quantities (ADR):	5I
Excepted quantities (ADR):	E1

Packing instructions (ADR):	P001, IBC03, R001
Mixed packing provisions (ADR):	MP19
Portable tank and bulk container instructions (ADR):	T7
Portable tank and bulk container special provisions (ADR):	TP1, TP28
Tank code (ADR):	L4BN
Vehicle for tank carriage:	AT
Transport category (ADR):	3
Special provisions for carriage - Packages (ADR):	V12
Special provisions for carriage - Loading, unloading and handling (ADR):	CV13, CV28
Hazard identification number (Kemler No.):	86
Orange plates:	



Tunnel restriction code (ADR):	E
EAC code:	2X
APP code:	B
Transport by sea	No data available
Air transport	No data available
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 3, severe 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: None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: None of the components are listed

Denmark

Classification remarks: Emergency management guidelines for the storage of flammable liquids must be followed  
 Danish National Regulations: Young people below the age of 18 years are not allowed to use the product  
 Pregnant/breastfeeding women working with the product must not be in direct contact with 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 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H226	_H_226_EU
H302	_H_302_EU
H304	_H_304_EU
H312	_H_312_EU

H315	_H_315_EU
H332	_H_332_EU
H336	_H_336_EU
H400	_H_400_EU
H410	_H_410_EU
H411	_H_411_EU

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