

# SAFETY DATA SHEET Hiperflo 300

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name Hiperflo 300
Product number 2010568
Synonyms; trade names Gasoline

**REACH registration notes**This material is a mixture. All components have been registered under REACH by the

Manufacturer or Supplier or are exempt.

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

Identified uses Use as a fuel

Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier Haltermann Carless UK Ltd

Head Office - Grove House, Guildford Road, Leatherhead, Surrey KT22 9DF United Kingdom

+44(0)1372 360000 +44(0)1372 380400

Contact person MSDSTeam@h-c-s-group.com

Manufacturer Haltermann Carless UK Ltd

Head Office - Grove House, Guildford Road, Leatherhead, Surrey KT22 9DF United Kingdom

+44(0)1372 360000 +44(0)1372 380400

1.4. Emergency telephone number

Emergency telephone Please contact SHE Department on +44(0) 1255 502372

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 1 - H224

Health hazards Skin Irrit. 2 - H315 Repr. 2 - H361fd STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

**Pictogram** 









Signal word

Danger

Hazard statements H224 Extremely flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

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

smoking.

P243 Take action to prevent static discharges. P273 Avoid release to the environment.

P280 Wear protective clothing, gloves, eye and face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

Contains Gasoline (CLP13), Ethyl Tertiary Butyl Ether

Supplementary precautionary

statements

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapour/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area. P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide or dry powder to

extinguish.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with international regulations.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Gasoline (CLP13) >60-100%

CAS number: 86290-81-5 EC number: 289-220-8 REACH registration number: 01-

2119471335-39-0007

Classification

Flam. Liq. 1 - H224 Skin Irrit. 2 - H315 Repr. 2 - H361fd STOT SE 3 - H336 Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

Ethyl Tertiary Butyl Ether >10-<30%

CAS number: 637-92-3 EC number: 211-309-7 REACH registration number: 01-

2119452785-29-XXXX

Classification

Flam. Liq. 2 - H225 STOT SE 3 - H336

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments UVCB Substance This gasoline contains: benzene <0.1%, n-hexane <3%, and toluene ≥3%

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing.

**Inhalation** Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Get medical attention if any

discomfort continues.

**Ingestion** Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not

induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if any discomfort continues.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of

water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

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

**Inhalation** Vapours in high concentrations are anaesthetic. Symptoms following overexposure may

include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

**Ingestion** Aspiration of product into the lungs can cause fatal chemical pneumonitis

**Skin contact** Skin irritation. Prolonged contact may cause redness, irritation and dry skin.

Eye contact No specific symptoms known.

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

Notes for the doctor Treat symptomatically.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Stop flow of material to fire. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards Protection against nuisance dust must be used when the airborne concentration exceeds 10

mg/m3. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up.

## Hiperflo 300

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

## 5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Use water to keep fire exposed containers cool and disperse vapours. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing

#### SECTION 6: Accidental release measures

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

Personal precautions Wear protective clothing as described

Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate. Take precautionary measures against static discharges. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

#### 6.2. Environmental precautions

**Environmental precautions** 

Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

Methods for cleaning up

Stop leak if safe to do so. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section

#### 6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions

Do not use in confined spaces without adequate ventilation and/or respirator. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Avoid contact with skin and eyes. Avoid spilling. Avoid inhalation of vapours. Static electricity and formation of sparks must be prevented. Storage tanks and other containers must be earthed.

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

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away

from heat, sparks and open flame. Store in a demarcated bunded area to prevent release to

drains and/or watercourses.

**Storage class** Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

Occupational exposure limits

**Ethyl Tertiary Butyl Ether** 

Long-term exposure limit (8-hour TWA): ACGIH 5 ppm

ACGIH = American Conference of Governmental Industrial Hygienists.

PNEC No PNEC available

Substance is a hydrocarbon UVCB substance that poses a chronic marine hazard.

#### Gasoline (CLP13) (CAS: 86290-81-5)

**DNEL** Industry - Inhalation; Short term systemic effects: 1300 mg/m³

Industry - Inhalation; Short term local effects: 1100 mg/m³ Industry - Inhalation; Long term local effects: 840 mg/m³

Consumer - Inhalation; Short term systemic effects: 1200 mg/m³ Consumer - Inhalation; Short term local effects: 640 mg/m³ Consumer - Inhalation; Long term local effects: 180 mg/m³ Industry - Dermal; Long term local effects: 23.4 mg/kg/day

PNEC No PNEC available

Substance is a hydrocarbon UVCB substance that poses a chronic marine hazard.

### Ethyl Tertiary Butyl Ether (CAS: 637-92-3)

**DNEL** Industry - Inhalation; Short term systemic effects: 2800 mg/m<sup>3</sup>

Industry - Inhalation; Long term systemic effects: 352 mg/m³ Industry - Dermal; Long term systemic effects: 6767 mg/kg/day Industry - Inhalation; Long term local effects: 105 mg/m³

Consumer - Inhalation; Short term systemic effects: 1680 mg/m³ Consumer - Inhalation; Long term systemic effects: 105 mg/m³ Consumer - Dermal; Long term systemic effects: 4060 mg/kg/day Consumer - Oral; Long term systemic effects: 12.5 mg/kg/day Consumer - Inhalation; Long term local effects: 63 mg/m³

PNEC - Fresh water; 0.51 mg/l

- Marine water; 0.017 mg/l
- Intermittent release; 1.1 mg/l
- Sediment (Freshwater); 28.5 mg/kg
- Sediment (Marinewater); 1.45 mg/kg

Soil; 2.41 mg/kgSTP; 12.5 mg/l

#### 8.2. Exposure controls

## Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

# Hiperflo 300

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Wash

promptly with soap and water if skin becomes contaminated. Do not smoke in work area. Do

not eat, drink or smoke when using this product.

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Colourless.

Odour Pungent.

Melting point <-60°C

Initial boiling point and range 35-197°C @ 760 mm Hg

Flash point < -30°C Pensky-Martens closed cup.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.4 Upper flammable/explosive limit: 7.6

Vapour pressure 67 kPa @ 37.8°C

Relative density 0.742 @ 15°C

Solubility(ies) No information required. Soluble in the following materials: Organic solvents. Substance is a

hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and

are not appropriate for this complex substance.

Partition coefficient No information required. Substance is a hydrocarbon UVCB. Standard tests for this endpoint

are intended for single substances and are not appropriate for this complex substance.

Auto-ignition temperature 300°C

Viscosity 0.75 cSt @ 20°C

Explosive properties Not applicable Low boiling point naphtha's (gasolines) are not considered explosive based on

structural and oxygen balance considerations.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Particle size No information required. In accordance with column 2 of REACH Annex VII, the particle size

distribution study (granulometry) does not need to be conducted because the substance is not

marketed or used in any solid or granular form.

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Avoid the following

conditions: Heat, sparks, flames.

# Hiperflo 300

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous

Will not polymerise.

reactions

products

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition Thermal decomposition or combustion products may include the following substances: Oxides

of carbon. Toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

**Toxicological effects** Information given is applicable to the major ingredient.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Oral, Rat (OECD 401)

Conclusive data but not sufficient for classification.

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o >2000 mg/kg, Dermal, Rabbit (OECD 402)

Conclusive data but not sufficient for classification.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC50 7630 +/- 900 mg/m<sup>3</sup>, Inhalation, Rat (OECD 403)

Conclusive data but not sufficient for classification.

Skin corrosion/irritation

Animal data Erythema/eschar score: Moderate to severe erythema (3). Oedema score: Slight oedema -

edges of area well defined by definite raising (2). (OECD 404) Irritating. Not corrosive to skin.

**Extreme pH** Not corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. (OECD 405)

Skin sensitisation

Skin sensitisation Buehler test: - Guinea pig: Not sensitising. (OECD 406)

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation:: Negative. (Method equivalent or similar to OECD 471) This substance has no

evidence of mutagenic properties.

Genotoxicity - in vivo Chromosome aberration: Negative. OECD Guideline 475 This substance has no evidence of

mutagenic properties. Although the data do not support classification of gasoline per se for genotoxic potential, there is a regulatory requirement to classify as genotoxic gasoline and

naphtha streams containing >0.1% benzene

Carcinogenicity

Carcinogenicity NOAEL ~10000 mg/m³, Inhalation, Rat (OECD 453) NOAEL 0.05 ml, Dermal, Mouse Method

equivalent to OECD 451 The data do not support the classification of gasoline per se for carcinogenic potential, however there is a regulatory requirement to classify as carcinogenic

gasoline and naphtha streams containing >0.1% benzene

# Hiperflo 300

Target organ for carcinogenicity

Kidneys Liver

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEC ≥20000 mg/m³, Inhalation, Rat F1 (OECD 416) It should be

noted that, although the data do not support classification of gasoline per se for reproductive toxicity potential according to EU regulation (EC no. 1272/2008), there is a regulatory requirement to classify as reprotoxic gasoline and naphtha streams containing >3% toluene

and / or n-hexane

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 23900 mg/m³, Inhalation, Rat (OECD 414) It should be noted that, although the data do not support classification of gasoline per se for reproductive

toxicity potential according to EU regulation (EC no. 1272/2008), there is a regulatory requirement to classify as reprotoxic gasoline and naphtha streams containing >3% toluene

and / or n-hexane

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL ~3750 mg/kg, Dermal, Method: OECD TG 410 under occlusive conditions

Aspiration hazard

Aspiration hazard Kinematic viscosity ≤ 20.5 mm²/s. May be fatal if swallowed and enters airways.

Inhalation Vapours in high concentrations are anaesthetic. Symptoms following overexposure may

include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

Ingestion Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited

material containing solvents reaches the lungs.

**Skin contact** Irritating to skin. Not a skin sensitiser.

**Eye contact** No specific health hazards known.

Route of exposure Inhalation Oral Skin and/or eye contact

SECTION 12: Ecological Information

**Ecotoxicity**The product contains substances which are toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment. Information given is applicable to the

major ingredient.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 10 mg/l, Oncorhynchus mykiss (Rainbow trout)

(OECD 203)

Acute toxicity - aquatic

EC<sub>50</sub>, 48 hours: 4.5 mg/l, Daphnia magna

invertebrates

(OECD 202)

(OECD 201)

Acute toxicity - LL<sub>50</sub>, 72 hours: 15.41 mg/l, Tetrahymena pyriformis

microorganisms (QSAR modeled data)

Acute toxicity - terrestrial Scientifically unjustified.

Chronic aquatic toxicity

# Hiperflo 300

Chronic toxicity - fish early life Read-across data. stage (OECD 211)

NOELR, 21 days: 2.6 mg/l, Daphnia magna

Chronic toxicity - aquatic

invertebrates (OECD 211)

OECD 211)

Read-across data.

NOELR, 21 days: 2.6 mg/l, Daphnia magna

#### 12.2. Persistence and degradability

Persistence and degradability Inherently biodegradable.

Phototransformation No information required.

Stability (hydrolysis) Scientifically unjustified.

The available data and weight of evidence demonstrate that this substance is resistant to hydrolysis because it lacks a functional group that is hydrolytically reactive. Therefore, this fate process will not contribute to a measurable degradable loss of this substance from the

environment.

Biodegradation Water - Degradation (%) 94: 25 days

Non-guideline research method using a closed-system shake flask apparatus

Inherently biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single

substances and are not appropriate for this complex substance.

Partition coefficient No information required. Substance is a hydrocarbon UVCB. Standard tests for this endpoint

are intended for single substances and are not appropriate for this complex substance.

12.4. Mobility in soil

Adsorption/desorption

coefficient

Scientifically unjustified. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance

Henry's law constant

Not applicable. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are

intended for single substances and are not appropriate for this complex substance.

Surface tension No information required. In line with REACH Annex VII, data on surface tension is not

required, as based on structural considerations, surface activity is not expected or predicted,

and surface activity is not a desired property of the material.

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

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

General information Waste is classified as hazardous waste. The generation of waste should be minimised or

avoided wherever possible. External recovery, treatment, recycling and disposal of waste

should comply with all applicable local and/or national regulations.

Disposal methods Dispose of waste via a licensed waste disposal contractor. Dispose of waste to licensed waste

disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class This material and container must be disposed of as a HAZARDOUS WASTE. According to the

> European Waste Code, the code is not related to the product but to its application. It is therefore for the user to chose the relevant code. The one mentioned in this section is a

suggestion only. Waste Code 13 07 02\* (Petrol)

## SECTION 14: Transport information

## 14.1. UN number

UN No. (ADR/RID) 1203 UN No. (IMDG) 1203 UN No. (ICAO) 1203 UN No. (ADN) 1203

## 14.2. UN proper shipping name

Proper shipping name (ADR/RID)

MOTOR SPIRIT (Gasoline)

Proper shipping name (IMDG) MOTOR SPIRIT (Gasoline)

Proper shipping name (ICAO) MOTOR SPIRIT (Gasoline)

Proper shipping name (ADN)

MOTOR SPIRIT (Gasoline)

## 14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

**ADN class** 3

#### Transport labels



## 14.4. Packing group

ADR/RID packing group Ш

IMDG packing group Ш

ICAO packing group Ш

ADN packing group Ш

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

# Hiperflo 300

EmS F-E, S-E

ADR transport category 2

Emergency Action Code 3YE

Hazard Identification Number 33

(ADR/RID)

Tunnel restriction code (D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

#### **SECTION 15: Regulatory information**

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation** Dangerous Substances Directive 67/548/EEC.

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) (as amended).

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 (as

amended).

Dangerous Preparations Directive 1999/45/EC.

## 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

#### SECTION 16: Other information

Revision comments Minor changes made

Issued by HCS Group Technical Team

Revision date 07/02/2018

Revision 5

Supersedes date 03/06/2015

SDS number 12172

SDS status Approved.

Hazard statements in full H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.