

## Safety Data Sheet

acc. to OSHA HCS

Printing date 06/20/2019

Reviewed on 06/12/2019

### 1 Identification

· **1.1 Product identifier**

- **Trade name:** P14
- **Application of the substance / the mixture:** Racing Fuel

· **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**  
 Haltermann Carless US Inc.  
 901 Wilshire Drive - Suite 570  
 Troy, MI 48084 - United States  
 Tel : +1 (248) 422 6548  
 Email: FDS@h-c-s-group.com

· **1.4 Emergency telephone number:**

4/7 Worldwide Emergency Telephone Number for Hazardous Materials Incident, Spill, Leak, Fire, Exposure or Accident: CHEMTREC on +1 703-741-5970 / +1-800-424-9300

### 2 Hazard(s) identification

· **2.1 Classification of the substance or mixture**

- **Classification according to Regulation US OSHA & Haz Com 2012 :**



Flam. Liq. 1 H224 Extremely flammable liquid and vapor.



Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**

- **Labelling according to Regulation US OSHA & Haz Com 2012 :**  
 The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**



GHS02    GHS07    GHS08

- **Signal word:** Danger

· **Hazard-determining components of labeling:**

Gasoline  
 Lead alkyls  
 diisopropyl ether

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· **Hazard statements**

- H224 *Extremely flammable liquid and vapor.*  
 H315 *Causes skin irritation.*  
 H319 *Causes serious eye irritation.*  
 H361 *Suspected of damaging fertility or the unborn child.*  
 H336 *May cause drowsiness or dizziness.*  
 H304 *May be fatal if swallowed and enters airways.*

· **Precautionary statements**

- P201 *Obtain special instructions before use.*  
 P202 *Do not handle until all safety precautions have been read and understood.*  
 P210 *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*  
 P240 *Ground/bond container and receiving equipment.*  
 P241 *Use explosion-proof electrical/ventilating/lighting/equipment.*  
 P242 *Use only non-sparking tools.*  
 P243 *Take precautionary measures against static discharge.*  
 P261 *Avoid breathing dust/fume/gas/mist/vapors/spray*  
 P264 *Wash thoroughly after handling.*  
 P271 *Use only outdoors or in a well-ventilated area.*  
 P273 *Avoid release to the environment.*  
 P280 *Wear protective gloves/protective clothing/eye protection/face protection.*  
 P301+P310 *If swallowed: Immediately call a poison center/doctor.*  
 P331 *Do NOT induce vomiting.*  
 P303+P361+P353 *If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*  
 P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
 P332+P313 *If skin irritation occurs: Get medical advice/attention.*  
 P362+P364 *Take off contaminated clothing and wash it before reuse.*  
 P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.*  
 P391 *Collect spillage.*  
 P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*  
 P403+P235 *Store in a well-ventilated place. Keep cool.*  
 P405 *Store locked up.*  
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

CAS: 86290-81-5 EINECS: 289-220-8 Index number: 649-378-00-4	Gasoline ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 108-20-3 EINECS: 203-560-6 Index number: 603-045-00-X RTECS: TZ 5425000	diisopropyl ether ⚠ Flam. Liq. 2, H225; ⚠ STOT SE 3, H336	10-25%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Carc. 1A, H350; ⚠ Eye Irrit. 2A, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	10-25%
CAS: 1634-04-4 EINECS: 216-653-1 Index number: 603-181-00-X RTECS: KN 5250000	tert-butyl methyl ether ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H311; ⚠ Skin Irrit. 2, H315	10-25%
CAS: 7439-92-1 EINECS: 231-100-4 Index number: 082-013-00-1 RTECS: OF 7525000	lead ⚠ Repr. 1A, H360; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332 Specific concentration limit: Repr. 1A; H360D: C ≥ 0.03 %	<0.25%

- **SVHC** -

### 4 First-aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Do not induce vomiting; immediately call for medical help.  
Immediately call a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **5.1 Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

CAS: 86290-81-5	Gasoline	200 ppm
CAS: 108-20-3	diisopropyl ether	310 ppm
CAS: 64-17-5	ethanol	1,800 ppm
CAS: 1634-04-4	tert-butyl methyl ether	50 ppm

- **PAC-2:**

CAS: 86290-81-5	Gasoline	1,000 ppm
CAS: 108-20-3	diisopropyl ether	1700* ppm
CAS: 64-17-5	ethanol	3300* ppm
CAS: 1634-04-4	tert-butyl methyl ether	570 ppm

- **PAC-3:**

CAS: 86290-81-5	Gasoline	4000* ppm
CAS: 108-20-3	diisopropyl ether	10000** ppm
CAS: 64-17-5	ethanol	15000* ppm
CAS: 1634-04-4	tert-butyl methyl ether	5300* ppm

## 7 Handling and storage

- **7.1 Precautions for safe handling**  
Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

Keep respiratory protective device available.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

**CAS: 86290-81-5 Gasoline (50-100%)**

REL See Pocket Guide App. A

TLV Short-term value: 1480 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 890 mg/m<sup>3</sup>, 300 ppm  
bulk handling

**CAS: 108-20-3 diisopropyl ether (10-25%)**

PEL Long-term value: 2100 mg/m<sup>3</sup>, 500 ppm

REL Long-term value: 2100 mg/m<sup>3</sup>, 500 ppm

TLV Short-term value: 1300 mg/m<sup>3</sup>, 310 ppm  
Long-term value: 1040 mg/m<sup>3</sup>, 250 ppm

**CAS: 64-17-5 ethanol (10-25%)**

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

**CAS: 1634-04-4 tert-butyl methyl ether (10-25%)**

TLV Long-term value: 180 mg/m<sup>3</sup>, 50 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

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· **Protection of hands:**

Protective gloves

· **Material of gloves** Butyl rubber, BR· **Eye protection:**

Tightly sealed goggles

## 9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Colorless
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	35-200 °C (95-392 °F)

· **Flash point:** -60 °C (-76 °F)· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** 300 °C (572 °F)· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** May form explosive peroxides.· **Explosion limits:**

· <b>Lower:</b>	1.0 Vol %
· <b>Upper:</b>	21.0 Vol %

· **Vapor pressure at 37.8 °C (100 °F):** 50 kPa· **Density at 15 °C (59 °F):** 0.7451 g/cm<sup>3</sup> (6.21786 lbs/gal)· **Relative density** Not determined.· **Vapor density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**· **Water:** Not miscible or difficult to mix.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

· <b>Dynamic at 20 °C (68 °F):</b>	0.75 cst
· <b>Kinematic:</b>	Not determined.

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- **Solvent content:**
- **Organic solvents:** 44.6 %
- **9.2 Other information** No further relevant information available.

### 10 Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with oxidizing agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide

### 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

**CAS: 86290-81-5 Gasoline**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,610 mg/l (rat)

**CAS: 108-20-3 diisopropyl ether**

Oral	LD50	8,470 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	162 mg/l (rat)

**CAS: 64-17-5 ethanol**

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

**CAS: 1634-04-4 tert-butyl methyl ether**

Oral	LD50	4,000 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)
Inhalative	LC50/4 h	142 mg/l (rat)

**Lead alkyls**

Oral	LD50	0.5 mg/kg (ATE)
Dermal	LD50	50 mg/kg (ATE)
Inhalative	LC50/4 h	0.5 mg/l (ATE)

- **Primary irritant effect:**
- **on the skin:**  
Causes skin irritation.
- **on the eye:**  
Causes serious eye irritation.
- **Sensitization:** Based on available data, the classification criteria are not met.

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- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 86290-81-5	Gasoline	2B
CAS: 64-17-5	ethanol	1
CAS: 1634-04-4	tert-butyl methyl ether	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**CAS: 86290-81-5 Gasoline**

LC50 48h 4.5 mg/l (daphnia)

LC50 96h 10 mg/l (fish)

EC50 72h 3.1 mg/l (plt)

**CAS: 64-17-5 ethanol**

EC50 72h 275 mg/l (Algae)

EC50 48h 12,340 mg/l (daphnia)

EC50 96h 13,000 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

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**13 Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1203

· **14.2 UN proper shipping name**

· **ADR** UN1203 MOTOR SPIRIT, ENVIRONMENTALLY HAZARDOUS  
 · **IMDG** MOTOR SPIRIT, MARINE POLLUTANT  
 · **IATA** MOTOR SPIRIT

· **14.3 Transport hazard class(es)**

· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids

· **Label** 3

· **IMDG**



· **Class** 3 Flammable liquids

· **Label** 3

· **IATA**



· **Class** 3 Flammable liquids

· **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** II

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<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	<ul style="list-style-type: none"> <li>Yes (DOT)</li> <li>Symbol (fish and tree)</li> <li>Symbol (fish and tree)</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	<ul style="list-style-type: none"> <li>Warning: Flammable liquids</li> <li>33</li> <li>F-E,S-E</li> <li>E</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<ul style="list-style-type: none"> <li>Not applicable.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>Quantity limitations</b></li> <li>· <b>Remarks:</b></li> </ul>	<ul style="list-style-type: none"> <li>On passenger aircraft/rail: 5 L</li> <li>On cargo aircraft only: 60 L</li> <li>Special marking with the symbol (fish and tree).</li> </ul>
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<ul style="list-style-type: none"> <li>Code: E2</li> <li>Maximum net quantity per inner packaging: 30 ml</li> <li>Maximum net quantity per outer packaging: 500 ml</li> </ul>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<ul style="list-style-type: none"> <li>1L</li> <li>Code: E2</li> <li>Maximum net quantity per inner packaging: 30 ml</li> <li>Maximum net quantity per outer packaging: 500 ml</li> </ul>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<ul style="list-style-type: none"> <li>UN 1203 MOTOR SPIRIT, 3, II, ENVIRONMENTALLY HAZARDOUS</li> </ul>

### 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

CAS: 1634-04-4 tert-butyl methyl ether

- **TSCA (Toxic Substances Control Act):**

CAS: 108-20-3	diisopropyl ether	ACTIVE
CAS: 64-17-5	ethanol	ACTIVE
CAS: 1634-04-4	tert-butyl methyl ether	ACTIVE

- **Hazardous Air Pollutants**

CAS: 1634-04-4 tert-butyl methyl ether

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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· <b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.

· <b>Chemicals known to cause developmental toxicity:</b>
CAS: 64-17-5   ethanol

· <b>Cancerogenity categories</b>
· <b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.

· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
CAS: 86290-81-5   Gasoline	A3
CAS: 64-17-5   ethanol	A3
CAS: 1634-04-4   tert-butyl methyl ether	A3

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
CAS: 86290-81-5   Gasoline

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of preparation / last revision** 06/20/2019 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 1: Flammable liquids – Category 1

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1