

# Safety Data Sheet

## According to 1907/2006 EEC Article 31

Printing date 17.09.2008

Revision: 11.06.2008

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** **XPS® Kart Tec Helmet Visor Cleaner**  
**200 ml**

- **Article number:** **25404**

- **Application of the substance / the preparation** Surface active agent

- **Manufacturer/Supplier:**

Petromark Automotive Chemicals BV

P.O. Box 294

NL-1940 AG Beverwijk

The Netherlands

Tel: +31(0)251-211397

- **Further information obtainable from:** Research & Development / r.tetteroo@petromark.nl

- **Information in case of emergency:**

During normal opening hours:

Tel: +31(0)251-211397

### 2 Hazards identification

- **Hazard description:**



F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



**Danger**

2.2/1 - Extremely flammable gas.

2.3/1 - Extremely flammable aerosol.

- **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

- **Response:**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

- **Storage:**

Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

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### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Active substance with propellant

- **Dangerous components:**

CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Xn, Xi; R 20/21/22-36/38 Danger: Skull and crossbones 3.1.O/3, 3.1.D/3, 3.1.I/4, 3.2/2, 3.3/2A Warning: 2.6/4	2.5-<10%
CAS: 106-97-8 EINECS: 203-448-7	butane F+; R 12 Danger: Flame 2.2/1 Warning: Gas cylinder 2.5/L	2.5-<10%
CAS: 1336-21-6 EINECS: 215-647-6	ammonia C, N; R 34-50 Danger: Corrosion 3.2/1B Warning: Gas cylinder 2.5/D; Environment 4.1.A/1	0.1-<1.0%

- **Ingredients according to detergents guideline 648/2004/EC**

aliphatic hydrocarbons	5 - 15%
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
Water haze  
Fire-extinguishing powder  
Carbon dioxide  
Alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Mount respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

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- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:**  
Observe official regulations on storing packagings with pressurized containers.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

### 8 Exposure controls/personal protection

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

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

##### 111-76-2 2-butoxyethanol

WEL	Short-term value: 50 ppm
	Long-term value: 25 ppm
	Sk

##### 106-97-8 butane

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm
	Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter AX/P2
- **Protection of hands:**  
Solvent resistant gloves  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## · Eye protection:



Tightly sealed goggles

## · Body protection: Use protective suit.

### 9 Physical and chemical properties

## · General Information

**Form:** Liquid  
**Colour:** According to product specification  
**Odour:** Characteristic

## · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 0°C

· Flash point: -60°C

· Ignition temperature: 240°C

· Self-igniting: Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

## · Explosion limits:

**Lower:** 1.1 Vol %  
**Upper:** 10.6 Vol %

· Vapour pressure at 20°C: 23 hPa

· Density at 20°C: 0.96 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· pH-value at 20°C: 10

## · Solvent content:

**Organic solvents:** 10.7 %  
**Water:** 88.4 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

## · Acute toxicity:

## · LD/LC50 values relevant for classification:

111-76-2 2-butoxyethanol

Oral	LD50	300 mg/kg (rabbit)
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		470 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

### 12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

**111-76-2 2-butoxyethanol**

LC50	1490 mg/l (Lepomis macrochirus (96 h))
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- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ) LQ2**
- **Transport category** 2
- **Tunnel restriction code** B1D

- **Maritime transport IMDG:**
- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -

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- **Proper shipping name:** AEROSOLS, flammable
- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

### 15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



F+ Extremely flammable

- **Risk phrases:**

12 Extremely flammable.

- **Safety phrases:**

- 2 Keep out of the reach of children.
- 23 Do not breathe aerosol.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

- **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
Water	50-100
NK	10-<25

- **VOC-CH** 10.70 %
- **VOC-EU** 679.5 g/l
- **Danish MAL Code** 3-1

### 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.

- **Relevant R-phrases**

- 12 Extremely flammable.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 34 Causes burns.
- 36/38 Irritating to eyes and skin.
- 50 Very toxic to aquatic organisms.

- **Department issuing MSDS:** Research & Development

- **Contact:** R. Tetteroo

- **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)

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RID: Reglement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **Sources** st

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