

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 05.03.2010

Revision: 05.03.2010

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

- **Product details**

- **Trade name:** Engine

- **Application of the substance / the preparation:** Surface cleanser

- **Manufacturer/Supplier:**

Bionic Technoloy BV

Bickershorn 3.

9678 RH Westerlee

Tel.: 0031 6 5101 4323

- **Further information obtainable from:** Abteilung Produktsicherheit

- **Information in case of emergency:**

Giftinformationszentrum Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein ( GIZ Nord ),

Georg August Universität Göttingen, Zentrum Pharmakologie und Toxikologie,

Robert Koch Straße 40,

37075 Göttingen

Tel.: 0551/192 40

Fax: 0551/383 1881

## 2 Hazards identification

- **Hazard description:**



Xn Harmful

F Highly 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.

R 11 Highly flammable.

R 65 Harmful: may cause lung damage if swallowed.

- **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**

H225 - Highly flammable liquid and vapour.



**Danger**

H304 - May be fatal if swallowed and enters airways.

- **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

- **Response:**

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

P303+P361+P353 **IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**

- **Storage:**

P405 Store locked up.

(Contd. on page 2)

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 05.03.2010

Revision: 05.03.2010

**Trade name: Engine**







(Contd. of page 1)

- **Disposal:**  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light  Xi, R 65 Danger:  3.10/1	50-100%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate  Xi,  F; R 11-36-66-67 Danger:  2.6/2 Warning:  3.3/2, 3.8/3	2.5-10%

- **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:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
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

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

(Contd. on page 3)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 05.03.2010

Revision: 05.03.2010

Trade name: Engine

(Contd. of page 2)

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

· **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 container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

## 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:**

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm

Long-term value: 200 ppm

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

· **Personal protective equipment:**

· **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.

· **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.

· **Protection of hands:** Not required.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** -60°C

**Boiling point/Boiling range:** 77°C

· **Flash point:** < 0°C

(Contd. on page 4)

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 05.03.2010

Revision: 05.03.2010

Trade name: Engine

(Contd. of page 3)

· <b>Ignition temperature:</b>	210°C
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.5 Vol %
<b>Upper:</b>	6.5 Vol %
· <b>Vapour pressure at 20°C:</b>	2 hPa
· <b>Density at 20°C:</b>	0.799 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water at -1°C:</b>	20 g/l
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	100 %
<b>VOC (EC)</b>	100 %
· <b>Solids content:</b>	0 %

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

### 12 Ecological information

- **Additional ecological information:**
- **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.

GB

(Contd. on page 5)

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 05.03.2010

Revision: 05.03.2010

Trade name: Engine

(Contd. of page 4)

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· <b>European waste catalogue</b>
-----------------------------------

15 01 10*	packaging containing residues of or contaminated by dangerous substances
-----------	--

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Hazard label:** 3
- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, Distillates (petroleum), hydrotreated light)

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, Distillates (petroleum), hydrotreated light)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, Distillates (petroleum), hydrotreated light)

(Contd. on page 6)

GB

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 05.03.2010

Revision: 05.03.2010

Trade name: Engine

(Contd. of page 5)

· UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

### 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:**  
Xn Harmful  
F Highly flammable
- **Hazard-determining components of labelling:**  
Distillates (petroleum), hydrotreated light
- **Risk phrases:**  
11 Highly flammable.  
65 Harmful: may cause lung damage if swallowed.
- **Safety phrases:**  
2 Keep out of the reach of children.  
9 Keep container in a well-ventilated place.  
13 Keep away from food, drink and animal feedingstuffs.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
33 Take precautionary measures against static discharges.  
36 Wear suitable protective clothing.

### 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**  
11 Highly flammable.  
36 Irritating to eyes.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.
- **Department issuing MSDS:** Abteilung Produktsicherheit
- **Contact:** Herr Dr. Bruder
- **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)  
RID: Règlement international 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