	<b>SAFETY DATA SHEET</b>	Page : 1 / 13
		Revision nr : 2
	<b>Vaeclean</b>	Issuing date : 28/10/2013
		Supersedes : 19/06/2013

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

### 1.1. Product identifier

Trade name/designation : Vaeclean  
 EC Index : 606-001-00-8  
 EC No : 200-662-2  
 CAS No. : 67-64-1  
 synonymes : dimethylketon; 2-propanon

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

Main use category : Industrial uses

### 1.3. Details of the supplier of the safety data sheet

Company : Imperbel NV/SA  
 Bergensesteenweg 32  
 1651 Lot , Belgium  
 Telephone: +32 2 334 87 00  
 Fax: +32 2 377 01 90  
 E-mail: infobe@derbigum.com  
 Website: www.derbigum.com

### 1.4. Emergency telephone number

Emergency telephone : + 32 3 575 55 55 (24h/24h)

IRELAND (REPUBLIC OF)  
 National Poisons Information Centre  
 Beaumont Hospital : +35 318 37 99 64

UNITED KINGDOM  
 National Poisons Information Service  
 (Newcastle Centre) : 0870 600 6266 (UK only)  
 Regional Drugs and Therapeutics Centre,  
 Wolfson Unit

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### **2.1.1. Classification according to Regulation (EU) 1272/2008**

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Flam. Liq. 2 H225  
 Eye Irrit. 2 H319  
 STOT SE 3 H336

Full text of H-phrases: see section 16

#### **2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.

F; R11  
 Xi; R36  
 R66  
 R67

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 2 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

Full text of R-phrases: see section 16

## 2.2. Label elements

### 2.2.1. Labelling according to Regulation (EU) 1272/2008

Hazard pictograms :



GHS02      GHS07

Signal word :

Danger

Hazard statements :

H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.

Precautionary statements :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P243 - Take precautionary measures against static discharge.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.

Extra phrases :

EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

## 2.3. Other hazards

Other hazards :

Results of PBT and vPvB assessment  
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
acetone, propan-2-one, propanone	(CAS No.) 67-64-1 (EC No) 200-662-2 (EC Index) 606-001-00-8	>= 99	F; R11 Xi; R36 R66 R67
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone, propan-2-one, propanone	(CAS No.) 67-64-1 (EC No) 200-662-2 (EC Index) 606-001-00-8	>= 99	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of R-, H- and EUH-phrases: see section 16

### 3.2. Mixtures

Not applicable

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 3 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Inhalation : Provide fresh air.  
Keep at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician immediately.
- Skin contact : Take off immediately all contaminated clothing.  
Wash with plenty of soap and water.  
When in doubt or if symptoms are observed, get medical advice.  
Wash contaminated clothing before reuse.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Call a physician immediately.
- Ingestion : Do not induce vomiting.  
Rinse mouth immediately and drink plenty of water.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.  
Get medical advice/attention if you feel unwell.
- Additional advice : First aider: Pay attention to self-protection!  
See also section 8 .  
When in doubt or if symptoms are observed, get medical advice.  
Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.

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

- Inhalation : Vapours may cause drowsiness and dizziness. May cause respiratory irritation. The following symptoms may occur: Headache, Tiredness, Nausea, ... Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis.
- Skin contact : Repeated exposure may cause skin dryness or cracking. Chronic exposure may cause dermatitis.
- Eye contact : Irritating to eyes. The following symptoms may occur: Redness, Pain, blurred vision .
- Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : Strong water jet .

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

- Fire hazard : Highly flammable liquid and vapour.
- Specific hazards : Danger of bursting container.  
Vapours can form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.  
Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.  
Hazardous decomposition products: COx.  
Do not allow run-off from fire-fighting to enter drains or water courses. Dispose

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 4 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

according to legislation.

### **5.3. Advice for firefighters**

Advice for firefighters : Special protective equipment for firefighters.  
In case of fire: Wear self-contained breathing apparatus.  
Cool containers / tanks with water spray.  
Evacuate area.

## **SECTION 6: Accidental release measures**

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

For non-emergency personnel : Evacuate area.  
Stay upwind/keep distance from source.  
Provide adequate ventilation.  
Use personal protective equipment as required.  
See also section 8.  
Do not breathe vapour/spray.  
Avoid contact with skin, eyes and clothes.  
Vapours can form explosive mixtures with air.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ensure that the equipment is adequately grounded.  
Use only non-sparking tools.  
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

For emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.  
Wear suitable protective equipment.  
See also section 8 .

### **6.2. Environmental precautions**

Environmental precautions : Do not allow to enter into surface water or drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Stop leak if safe to do so.  
Dam up.  
Large spills should be collected mechanically (remove by pumping) for disposal.  
Dispose according to legislation.  
Clean-up methods - small spillage .  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal.  
Dispose of contents/container in accordance with local regulation.  
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

### **6.4. Reference to other sections**

See also section 8 .  
See also section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Handling : Provide adequate ventilation.  
Use personal protective equipment as required.  
See also section 8 .

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 5 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

Avoid contact with skin, eyes and clothes.  
 Avoid formation of aerosol.  
 Do not breathe vapour/spray.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Ensure that the equipment is adequately grounded.  
 Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
 Take any precaution to avoid mixing with Incompatible materials :  
 See also section 10 .  
 After use replace the closing cap immediately.  
 Do not allow contact with soil, surface or ground water.

Advices on general occupational hygiene : Keep good industrial hygiene.  
 When using do not eat, drink or smoke.  
 Wash hands and face before breaks and immediately after handling of the product.  
 Keep away from food, drink and animal feedingstuffs.  
 Take off contaminated clothing and wash before reuse.

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

Storage : Storage of flammable liquids (LGK3).  
 Keep containers tightly closed in a dry, cool and well-ventilated place.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Keep away from direct sunlight.  
 Do not store near or with any of the incompatible materials listed in section 10.  
 Ensure that the equipment is adequately grounded.

Packaging material : Keep/Store only in original container.  
 Recommended packaging materials :  
 Steel,  
 Stainless steel .

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Exposure limit values :

<b>acetone, propan-2-one, propanone (67-64-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
Austria	MAK (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Austria	MAK (ppm)	500 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	4800 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	500 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	1400,0 mg/m <sup>3</sup>
Cyprus	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	500 ppm
France	VLE (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	1000 ppm (restrictive limit)

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 6 / 13
		Revision nr : 2
	<b>Vaeclean</b>	Issuing date : 28/10/2013
		Supersedes : 19/06/2013

<b>acetone, propan-2-one, propanone (67-64-1)</b>		
France	VME (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	500 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Germany	TRGS 903 (BGW)	80 mg/l (Medium: urine - Time: end of shift - Parameter: Acetone)
Gibraltar	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Gibraltar	OEL TWA (ppm)	500 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	1780 mg/m <sup>3</sup>
Greece	OEL STEL (mg/m <sup>3</sup> )	3560 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	500 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	750 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	500 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	500 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	500 ppm (indicative limit value)
Switzerland	VLE (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	1000 ppm
Switzerland	VME (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Switzerland	VME (ppm)	500 ppm
The Netherlands	MAC TGG 8H (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
The Netherlands	MAC TGG 15MIN (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3620 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	250 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	500 ppm
Finland	HTP-arvo (15 min)	1500 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	630 ppm
Hungary	AK-érték	1210 mg/m <sup>3</sup>
Hungary	CK-érték	2420 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	1000 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	500 ppm

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>		Page : 7 / 13
			Revision nr : 2
			Issuing date : 28/10/2013
	<b>Vaeclean</b>		Supersedes : 19/06/2013

<b>acetone, propan-2-one, propanone (67-64-1)</b>		
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	295 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	125 ppm
Norway	Gjennomsnittsverdier (Kortidsverdi) (mg/m <sup>3</sup> )	368,75 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (Kortidsverdi) (ppm)	156,25 ppm
Poland	NDS (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	500 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	250 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	500 ppm

Recommended monitoring procedures: : Personal monitoring  
Concentration measurement in air

## **8.2. Exposure controls**

- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. :  
Respirator with a half face mask (EN 140),  
Respirator with a full face mask (EN 136)  
Recommended Filter type: AX (EN 371).  
Have available emergency self-contained breathing apparatus or full-face airline respirator when using this chemical.
- Hand protection : Wear chemically resistant gloves (tested to EN374) Butyl rubber :  
Thickness of the glove material ≥ 0,5 mm, Breakthrough time (maximum wearing time) > 4 h. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Eye protection : Tightly fitting safety goggles Safety glasses (EN166).
- Body protection : Flame retardant antistatic protective clothing /  
Solvent-resistant apron and boots .
- Thermal hazard protection : Not required under normal use. .  
Use dedicated equipment.
- Engineering control measures : Provide adequate ventilation.  
Use only in area provided with appropriate exhaust ventilation.  
A washing facility/water for eye and skin cleaning purposes should be present.  
Use only explosion-proof equipment.

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 8 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.  
 Take precautionary measures against static discharges.  
 Organisational measures to prevent /limit releases, dispersion and exposure  
 See also section 7 .

Environmental exposure controls : Do not allow contact with soil, surface or ground water.  
 Comply with applicable Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: characteristic, sweet
Odour Threshold	: ~ 13 ppm
pH	: Not applicable
Melting point/range	: -94,7 °C
Boiling point/boiling range	: 55,8 - 56,6 °C
Flash point	: -18 °C closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable, liquid
Explosion limits (LEL, UEL)	: 2,1 - 13 vol %
Vapour pressure	: 247 hPa @ 20°C 812 hPa @ 50°C
Vapour density	: 2,0
Density	: 0,791 g/cm <sup>3</sup> @ 20°C
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: -0,24 @ 20°C
Autoignition temperature	: 540 °C Ignition temperature
Decomposition temperature	: No data available
Viscosity	: 0,33 mPa.s @ 20°C
Explosive properties	: Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	: Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

### 9.2. Other information

Molecular weight	: 58,09 g/mol
Other information	: Refractive index 1,358 - 1,359

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: Highly flammable liquid and vapour. See also section 10.5
------------	--



<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 9 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

### **10.2. Chemical stability**

Stability : The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions : Vapours can form explosive mixtures with air.  
See also section 7 :  
Handling and storage .

### **10.4. Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.  
See also section 7 :  
Handling and storage .

### **10.5. Incompatible materials**

Incompatible materials : Reducing agents, Oxidizing agents, Halogenated compounds, Alkali metals, Hydrogen peroxide, C<sub>2</sub>H<sub>7</sub>NO. See also section 7 .

### **10.6. Hazardous decomposition products**

Hazardous decomposition products : Hazardous decomposition products: Carbon oxides .

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

<b>acetone, propan-2-one, propanone (67-64-1)</b>	
LC50/inhalation/4h/rat	50100 mg/m <sup>3</sup> (Exposure time: 8 h)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: Not applicable

Serious eye damage/eye irritation : Causes serious eye irritation.  
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

### **Other information**

Symptoms related to the physical, chemical and toxicological characteristics, see section 4.2.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 10 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

<b>acetone, propan-2-one, propanone (67-64-1)</b>	
LC50 fish 1	4,74 - 6,33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	10294 - 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	6210 - 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	12600 - 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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

Persistence and degradability : Readily biodegradable.  
 Chemical Oxygen Demand (COD) : 2,100 g O<sub>2</sub>/g substance  
 Biochemical Oxygen Demand (BOD) : 1,900 g O<sub>2</sub>/g substance (after {5} days)

### **12.3. Bioaccumulative potential**

Bioaccumulation : No bioaccumulation is to be expected (log Pow ≤ 4).  
 Partition coefficient: n-octanol/water : -0,24 @ 20°C  
 Bioconcentration factor (BCF) : < 10

### **12.4. Mobility in soil**

Mobility : Product is easily volatile.

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

PBT/vPvB : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
 This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### **12.6. Other adverse effects**

Other information : No information available.

## **SECTION 13: Disposal considerations**


### **13.1. Waste treatment methods**

Waste from residues / unused products : Handle with care.  
 See also section 7  
 Do not allow to enter into surface water or drains.  
 Where possible recycling is preferred to disposal or incineration.  
 Collect and dispose of waste product at an authorised disposal facility.  
 Dispose according to legislation.

Contaminated packaging : This material and its container must be disposed of as hazardous.  
 Do not puncture or incinerate.  
 Do not burn, or use a cutting torch on, the empty drum.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 If recycling is not practicable, dispose of in compliance with local regulations.  
 Handle contaminated packages in the same way as the substance itself.

Additional ecological information : Do not allow contact with soil, surface or ground water.

List of suggested waste codes/waste designations in accordance with the EWC: : Classified as hazardous waste according to European Union regulations.  
 The following Waste Codes are only suggestions:  
 07 01 04\* - other organic solvents, washing liquids and mother liquors,  
 15 01 10\* - packaging containing residues of or contaminated by dangerous substances .  
 Waste codes should be assigned by the user based on the application for which the product was used.

	<b>SAFETY DATA SHEET</b>	Page : 11 / 13
		Revision nr : 2
	<b>Vaeclean</b>	Issuing date : 28/10/2013
		Supersedes : 19/06/2013

## SECTION 14: Transport information

### 14.1. UN number

UN-No. : 1090

### 14.2. UN proper shipping name

Proper Shipping Name : ACETONE  
 Proper shipping name IATA/IMDG : ACETONE

### 14.3. Transport hazard class(es)

#### 14.3.1. Overland transport

Class : 3 - Flammable liquid  
 Hazard identification number (Kemler No.) : 33  
 Classification code : F1  
 ADR/RID-Labels : 3 - Flammable liquid



#### 14.3.2. Inland waterway transport (ADN)

Class (UN) : 3

#### 14.3.3. Transport by sea

Class or Division : 3 - Flammable liquid

#### 14.3.4. Air transport

Class or Division : 3 - Flammable liquid

### 14.4. Packing group

Packing group : II

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Restrictions on use : REACH Annex XVII Art 3 & 40

Restrictions on use :

<b>VAEPLAN®</b>	<b>SAFETY DATA SHEET</b>	Page : 12 / 13
	<b>Vaeclean</b>	Revision nr : 2
		Issuing date : 28/10/2013
		Supersedes : 19/06/2013

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 : Vaeclean - acetone, propan-2-one, propanone

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. : Vaeclean - acetone, propan-2-one, propanone

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

: None

Authorisations

: Not applicable

#### 15.1.2. National regulations

DE : WGK

: 1

DE : German storage class (LGK)

: LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)

DE : Technische Regeln für Gefahrstoffe (TRGS)

: applicable

DE : Risk classification according to VbF

: B - Liquids with a flashpoint below 21°C, but soluble in water at 15°C or flammable ingredients that are soluble in water at 15°C

FR : Installations classées

: 143x

NL : ABM

: 11 - Weinig schadelijk voor in het water levende organismen (B)

NL : NeR (Nederlandse emissie Richtlijn)

: Organic substances in vapour or gaseous form

#### 15.2. Chemical safety assessment

Chemical Safety Assessment

: no data available

### SECTION 16: Other information


Full text of R-, H- and EUH-phrases:

Eye Irrit. 2 : Serious eye damage/eye irritation Category 2  
 Flam. Liq. 2 : Flammable liquids, Category 2  
 STOT SE 3 : Specific target organ toxicity — Single exposure, Category 3, Narcosis  
 H225 : Highly flammable liquid and vapour.  
 H319 : Causes serious eye irritation.  
 H336 : May cause drowsiness or dizziness.  
 R11 : Highly flammable.  
 R36 : Irritating to eyes.  
 R66 : Repeated exposure may cause skin dryness or cracking.  
 R67 : Vapours may cause drowsiness and dizziness.  
 F : Highly flammable  
 Xi : Irritant

Key literature references and sources for data : European Chemicals Bureau (<http://esis.jrc.ec.europa.eu>)  
 SDS Supplier '322/Sidablatt-Reiniger'  
 revision date 30.07.2012

Safety datasheet sections which have been updated: : 1,15,16

Abbreviations and acronyms : ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin  
 ADR = Accord européen relatif au transport international des marchandises

	<b>SAFETY DATA SHEET</b>	Page : 13 / 13
		Revision nr : 2
	<b>Vaeclean</b>	Issuing date : 28/10/2013
		Supersedes : 19/06/2013

Dangereuses par Route

CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Code

LEL = Lower Explosive Limit/Lower Explosion Limit

UEL = Upper Explosion Limit/Upper Explosive Limit

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

EC50 = Median Effective Concentration

LD50 = Median lethal dose

LC50 = Median lethal concentration

EWC = European Waste Catalogue

TLV = Threshold limits

TWA = time weighted average

STEL = Short term exposure limit

PBT = persistent, bioaccumulating and toxic (PBT).

vPvB = very persistent and very bioaccumulating

WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.