

# Safety Data Sheet



**Trade name :** VEROTYL-F  
**Revision date :** 12.04.2017  
**Print date :** 12-4-2017

**Version (Revision) :** 4.0.0 (3.0.0)

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

### 1.1 Product identifier

VEROTYL-F (W02005)

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

#### Relevant identified uses

Fragrance mixture which may be used in fragrance compounds according to the current legislation and IFRA rules.  
Fragrance ingredient which may be used in fragrance compounds according to the current legislation and IFRA rules.  
Reserved for industrial and professional use.

#### Uses advised against

Not intended for oral consumption.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

PFW Aroma Ingredients B.V.

**Street :** Veemweg 29-31

**Postal code/city :** NL - 3771 MT Barneveld

**Telephone :** +31 342 407 700

**Telefax :** +31 342 407 720

**Information contact :** regulatory.affairs@keva.co.in

### 1.4 Emergency telephone number

+31 342 407 793

USA: +1 800 222 1222

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Skin Irrit. 3 ; H316 - Skin corrosion/irritation : Category 3 ; Causes mild skin irritation.  
Flam. Liq. 4 ; H227 - Flammable liquids : Category 4 ; Combustible liquid.

### 2.2 Label elements

#### Labelling according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

##### Signal word

Warning

##### Hazard statements

H227 Combustible liquid.  
H316 Causes mild skin irritation.

##### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P370+P378 In case of fire: Use ... to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.

# Safety Data Sheet



Trade name : VEROTYL-F  
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Version (Revision) : 4.0.0 (3.0.0)

## Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

2-PHENYLETHANOL ; EC No. : 200-456-2; CAS No. : 60-12-8

Weight fraction : 2,5 - 10 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Acute Tox. 5 ; H313 Skin Irrit. 3 ; H316

#### Additional information

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Remove victim out of the danger area. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### In case of skin contact

Wash immediately with: Water Do not wash with: Solvents/Thinner

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam Extinguishing powder

#### Unsuitable extinguishing media

Strong water jet Water mist

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

#### Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide (CO).

# Safety Data Sheet



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## 5.3 Advice for firefighters

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers.

### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## SECTION 6: Accidental release measures

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

Special danger of slipping by leaking/spilling product. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Suitable material for taking up: Sand Kieselguhr Universal binder Sawdust Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

See protective measures under point 7 and 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Wear personal protection equipment (refer to section 8).

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

#### Technical measures and storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Never use pressure to empty container.

#### Hints on joint storage

Keep away from oxidising agent, acid and alkali.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

To date, no national critical limit values exist.

### 8.2 Exposure controls

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

#### Appropriate engineering controls

No special technical protective measures are necessary.

#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection

##### Skin protection

###### Hand protection

Hand protection is not required

###### Body protection

# Safety Data Sheet



Trade name : VEROTYL-F  
Revision date : 12.04.2017  
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Version (Revision) : 4.0.0 (3.0.0)

Overall

## Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation insufficient exhaust  
Handling larger quantities. Container device with compressed air (DIN EN 137) / Filtering device (full mask or mouthpiece) with filter: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m<sup>3</sup> (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (1.0 % by vol.)

## Environmental exposure controls

Send to a hazardous waste incinerator facility under observation of official regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

Physical state :	liquid	
Colour :	clear almost colorless	
Odour :	floral	
Freezing point :	< -20 °C	
Flash point (Closed Cup) :	93 °C	DIN EN 51578
Evaporation rate :	slowly evaporating	
Density :	0,987 g/cm <sup>3</sup>	
Water solubility :	insoluble (0.1mg/l)	

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Exothermic reaction with: oxidising agent strong acid strong alkali

### 10.6 Hazardous decomposition products

Decomposition with: Carbon dioxide. Carbon monoxide (CO).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat

# Safety Data Sheet



**Trade name :** VEROTYL-F  
**Revision date :** 12.04.2017  
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**Version (Revision) :** 4.0.0 (3.0.0)

Effective dose : > 5000 mg/kg  
Source : PFW Aroma Chemicals BV  
Parameter : LD50 ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5000 mg/kg  
Source : PFW Aroma Chemicals BV  
Parameter : LD50 ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5 g/kg  
Source : NLM\_CIP  
Parameter : LD50 ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5 g/kg  
Source : NLM\_CIP  
Parameter : LD50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1,5 g/kg  
Source : Research Institute for Fragrance Materials (RIFM)  
Parameter : LD50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1790 mg/kg  
Source : NLM\_CIP  
Parameter : LD50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1790 mg/kg  
Source : NLM\_CIP

## Acute dermal toxicity

Parameter : LD50  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Source : PFW Aroma Chemicals BV  
Parameter : LD50 ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Source : PFW Aroma Chemicals BV  
Parameter : LD50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 5 g/kg  
Parameter : LD50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 0,79 ml/kg  
Source : NZ\_CCID  
Parameter : LD50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )

# Safety Data Sheet



**Trade name :** VEROTYL-F  
**Revision date :** 12.04.2017  
**Print date :** 12-4-2017

**Version (Revision) :** 4.0.0 (3.0.0)

Exposure route : Dermal  
Species : Rabbit  
Effective dose : 0,79 ml/kg  
Source : NZ\_CCID

## Acute inhalation toxicity

Parameter : LC50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 1,38 mg/l  
Exposure time : 4 h  
Source : NLM\_CIP

## Irritant and corrosive effects

### Primary irritation to the skin

Parameter : Irritation of the skin ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Parameter : Rabbit  
Result : No Irritation  
Method : 100%  
Source : Research Institute for Fragrance Materials (RIFM)

### Irritation to eyes

Parameter : Irritation of the eyes ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Parameter : guinea pig  
Result : Irritating

## Sensitisation

### In case of skin contact

Parameter : Skin sensitisation ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Parameter : human  
Effective dose : 4 %  
Result : no irritation, no sensitisation  
Method : Human maximisation test  
Source : PFW Aroma Chemicals BV

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

No information available.

#### Acute (short-term) fish toxicity

Parameter : LC50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 215 - 464 mg/l  
Exposure time : 96 h  
Method : DIN 38412 / part 15  
Source : European Chemicals Agency (ECHA)

#### Acute (short-term) daphnia toxicity

Parameter : EC50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 287 mg/l  
Exposure time : 48 h  
Method : Regulation (EC) No. 440/2008, Annex, C.2

# Safety Data Sheet



**Trade name :** VEROTYL-F  
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**Version (Revision) :** 4.0.0 (3.0.0)

Source : European Chemicals Agency (ECHA)

## Acute (short-term) algae toxicity

Parameter : ErC50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 13000 mg/l  
Exposure time : 72 h  
Method : DIN 38412 / part 9  
Source : European Chemicals Agency (ECHA)

## Effects in sewage plants

Parameter : EC50 ( 2-PHENYLETHANOL ; CAS No. : 60-12-8 )  
Inoculum : Activated sludge  
Evaluation parameter : Effects in sewage plants  
Effective dose : > 100 mg/l  
Exposure time : 3 h  
Method : Activated sludge respiration inhibition  
Source : European Chemicals Agency (ECHA)

## 12.2 Persistence and degradability

### Biodegradation

Analytical method : Biodegradation ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Parameter : Degree of elimination  
Type : Aerobic  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : QSAR  
Source : PFW Aroma Chemicals BV

## 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Result : approx. 39 l/kg ww  
Method : QSAR  
Source : PFW Aroma Chemicals BV  
Parameter : Partition coefficient: n-octanol/water ( [2-(1-ETHOXYETHOXY)ETHYL]BENZENE ; CAS No. : 2556-10-7 )  
Result : approx. 3  
Method : QSAR  
Source : PFW Aroma Chemicals BV

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

None

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Clean IBCs or drums at approved facility only. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing

# Safety Data Sheet



**Trade name :** VEROTYL-F  
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**Version (Revision) :** 4.0.0 (3.0.0)

which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### National regulations

##### Water hazard class (WGK)

Class : water pollutant according VwVwS

##### Other regulations, restrictions and prohibition regulations which apply

### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP]

### 16.2 Abbreviations and acronyms

a.i. = Active ingredient; ACGIH = American Conference of Governmental Industrial Hygienists (US); ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AFFF = Aqueous Film Forming Foam; AICS = Australian Inventory of Chemical Substances; AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC); AOAC = AOAC International (formerly Association of Official Analytical Chemists); aq. = Aqueous; Asia-PAC = Asia Pacific; ASTM = American Society of Testing and Materials (US); atm = Atmosphere(s); B.V. = Beperkt Vennootschap (LTD = Limited); BCF = Bioconcentration Factor; bp = Boiling point at stated pressure; bw = Body weight; ca = (Circa) about; CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society); CEFIC = European Chemical Industry Council (established 1972); CEPA = Canadian Environmental Protection Act (CAN); CEPA = Canadian Environmental Protection Act (Canada); CIPAC = Collaborative International Pesticides Analytical Council; CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.; CoE = Council of Europe (EU); Conc = Concentration; cP = CentiPoise; CSNN = Chemical Substance Nomination & Notification (Taiwan); cSt = Centistokes; d = Day(s); DIN = Deutsches Institut für Normung e.V.; DNEL = Derived No-Effect Level; DSL = Domestic Substances List; DT50 = Time for 50% loss; half-life; EbC50 = Median effective concentration (biomass, e.g. of algae); EC = European Community; European Commission; EC50 = Median effective concentration; ECL = Existing Chemicals List (Korea); EINECS = European Inventory of



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**Version (Revision) :** 4.0.0 (3.0.0)

Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number); ELINCS = European List of Notified (New) Chemicals; ENCS = Existing and New Chemical Substances Inventory (Japan); ErC50 = Median effective concentration (growth rate, e.g. of algae); EU = European Union; EWC = European Waste Catalogue; FAO = Food and Agriculture Organization (United Nations); FEMA = Flavor & Extract Manufacturers Association (USA); FLAVIS = Flavour Information System (EU); GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International); GRAS = Generally Recognized As Safe (USA); h = Hour(s); hPa = HectoPascal (unit of pressure); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Concentration that produces 50% inhibition; IECSC = Inventory of Existing Chemical Substances (China); IMDG Code = International Maritime Dangerous Goods Code; IMO = International Maritime Organization; ISO = International Organization for Standardization; IUCLID = International Uniform Chemical Information Database; IUPAC = International Union of Pure and Applied Chemistry; IVIS = In-Vitro Irritancy Score; JECFA = Joint Expert Committee on Food Additives (United Nations); kg = Kilogram; Kow = Distribution coefficient between n-octanol and water; kPa = KiloPascal (unit of pressure); LC50 = Concentration required to kill 50% of test organisms; LD50 = Dose required to kill 50% of test organisms; LEL = Lower Explosive Limit/Lower Explosion Limit; LOAEL = Lowest observed adverse effect level; LVE = Low Volume Exemption; mg = Milligram; min = Minute(s); ml = Milliliter; mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa); mp = Melting point; MRL = Maximum Residue Limit; MSDS = Material Safety Data Sheet; n.o.s. = Not Otherwise Specified; NDSL = Non-Domestic Substances List; NIOSH = National Institute for Occupational Safety and Health (US); NOAEL = No Observed Adverse Effect Level; NOEC = No observed effect concentration; NOEL = No Observable Effect Level; NOx = Oxides of Nitrogen; NZIoC = New Zealand Inventory of Chemicals; OECD = Organization for Economic Cooperation and Development; OEL = Occupational Exposure Limits; Pa = Pascal (unit of pressure); PBT = Persistent, Bioaccumulative or Toxic; pH = -log10 hydrogen ion concentration; PICCS = Philippine Inventory of Chemicals and Chemical Substances; pKa = -log10 acid dissociation constant; PNEC = Predicted No Effect Concentration; POPs = Persistent Organic Pollutants; ppb = Parts per billion; PPE = Personal Protection Equipment; ppm = Parts per million; ppt = Parts per trillion; PVC = Polyvinyl Chloride; QSAR = Quantitative Structure-Activity Relationship; REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP); SI = International System of Units; STEL = Short-Term Exposure Limit; tech. = Technical grade; TSCA = Toxic Substances Control Act (US); TSCA = Toxic Substances Control Act (USA); TWA = Time-Weighted Average; UN = United Nations; vPvB = Very Persistent and Very Bioaccumulative; VwVwS = Verwaltungsvorschrift wassergefährdender Stoffe; WHO = World Health Organization = OMS; y = Year(s);

## 16.3 Key literature references and sources for data

None

## 16.5 Relevant R-, H, and EUH-phrases of all the individual ingredients

H227	Combustible liquid.
H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
22	Harmful if swallowed.
36	Irritating to eyes.

## 16.6 Training advice

None

## 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.