

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Fluxaf® Pro! Liquid  
Revision date : 27.08.2013  
Date of print : 14-11-2014

Version (Revision) : 3.0.4 (3.0.3)

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

### 1.1 Product identifier

Fluxaf® Pro! Liquid (2164)

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

#### Relevant identified uses

##### Product categories [PC]

PC9A - Coatings and paints, thinners, paint removers

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

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

Vliegenthart B.V.

**Street :** Zuiderhavenweg 42

**Postal code/city :** 4004 JJ TIEL

**Telephone :** +31 (0)344 63 33 36

**Telefax :** +31 (0)344 63 16 16

### 1.4 Emergency telephone number

+31 (0)344 63 33 36 (During officehours: 08:30 - 17:00 hour.)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Flammable. · Vapours may cause drowsiness and dizziness.

R 10 · R 67 · R 66

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H336 - Specific target organ toxicity (single exposure) : Category 3 ; May cause drowsiness or dizziness.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

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### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container to chemicals waste depot.

### Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

None

## SECTION 3: Composition/ information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

N-BUTYL ACETATE ; EC No : 204-658-1; CAS No. : 123-86-4

Weight fraction : 25 - 50 %  
Classification 67/548/EEC : R10 R67 R66  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

BUTANONE ; EC No : 201-159-0; CAS No. : 78-93-3

Weight fraction : 2,5 - 10 %  
Classification 67/548/EEC : F ; R11 Xi ; R36 R67 R66  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

DE-AROMATISED KEROSENE ; REACH registration No. : 01-2119486659-16 ; EC No : 265-150-3; CAS No. : 64742-48-9

Weight fraction : < 2,5 %  
Classification 67/548/EEC : Xn ; R65 R66  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304

ISOTRIDECANOL ETHOXYLATES ; CAS No. : 69011-36-5

Weight fraction : < 2,5 %  
Classification 67/548/EEC : Xi ; R41 Xn ; R22  
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

#### Additional information

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

### 3.3 Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

## 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. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

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If breathing is irregular or stopped, administer artificial respiration.

### **In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

### **After eye contact**

If possible, remove contactlenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### **After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Keep at rest.

## **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. Carbon dioxide (CO<sub>2</sub>). Sand. Water mist

#### **Unsuitable extinguishing media**

High power water jet.

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

#### **Hazardous combustion products**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### **5.3 Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

### **5.4 Additional information**

Burning produces heavy smoke. Do not allow run-off from fire-fighting to enter drains or water courses. Use water spray jet to protect personnel and to cool endangered containers.

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

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

Remove all sources of ignition. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

#### **For cleaning up**

Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

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## 6.4 Reference to other sections

None

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling



#### Protective measures

Only use the material in places where open light, fire and other flammable sources can be kept away. Wear personal protection equipment. (see chapter 8). If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Avoid the forming of inflammable or explosive concentrations of vapour in the air and exposure concentrations higher than permitted, Comply with the health and safety at work laws.

#### Fire prevent measures

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours can form explosive mixtures with air.

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

#### Technical measures and storage conditions

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

#### Requirements for storage rooms and vessels

Keep container tightly closed. Ensure adequate ventilation of the storage area. Restrict access to stockrooms.

#### Hints on joint storage

##### Keep away from

Keep away from ignition sources. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

BUTANONE ; CAS No. : 78-93-3

Limit value type (country of origin) : STEL ( EC )

Limit value : 300 ppm / 900 mg/m<sup>3</sup>

Version : 08-06-2000

Limit value type (country of origin) : TWA ( EC )

Limit value : 200 ppm / 600 mg/m<sup>3</sup>

Version : 08-06-2000

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## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

### Personal protection equipment

#### Eye / face protection



Eye glasses with side protection

#### Skin protection

##### Hand protection



Long Gloves NBR (Nitrile rubber). Recommended Thickness DIN EN 374

##### Body protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

**Suitable protective clothing** : Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

##### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. By spraying: air fed respirator. By other operations than spraying: in well ventilated areas, airfed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour** : Colourless.  
**Odour** : Characteristic.  
**Odor Threshold value** : Not determined

#### Safety relevant basis data

<b>Physical state</b> :	liquid	
<b>Melting point / melting range</b> :	No data available	
<b>Boiling temperature / boiling range</b> :	79 °C	
( 1013 hPa )		
<b>Decomposition temperature</b> :	Not determined	
( 1013 hPa )		
<b>Evaporation rate</b>	Not determined	
<b>Flash point</b> :	27 °C	CC
<b>Ignition temperature</b> :	270 °C	
<b>Flammability (gas, solid)</b>	Not determined	

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<b>Lower explosion limit :</b>			1,8	Vol-%
<b>Upper explosion limit :</b>			10,4	Vol-%
<b>Explosive properties</b>			Not determined	
<b>Density :</b>	( 20 °C )	ca.	0,976	g/cm <sup>3</sup>
<b>Water solubility :</b>	( 20 °C )		insoluble	
<b>PH value :</b>			not applicable	
<b>Viscosity :</b>	( 20 °C )		Not determined	
<b>Oxidising properties</b>			Not determined	
<b>Partition coefficient n-octanol/water</b>			Not determined	

## 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

Stable under recommended storage and handling conditions(See section 7 and 8).

### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	13100 mg/kg
Parameter :	LD50 ( DIMETHYL SULFOXIDE ; CAS No. : 67-68-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	28300 mg/kg
Parameter :	LD50 ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Oral
Species :	Rat

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Effective dose : 2737 mg/kg

### Acute dermal toxicity

Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Dermal

Species : Rabbit

Effective dose : 14100 mg/l

Parameter : LD50 ( DIMETHYL SULFOXIDE ; CAS No. : 67-68-5 )

Exposure route : Dermal

Species : Rat

Effective dose : ca. 40000 mg/kg

Parameter : LD50 ( BUTANONE ; CAS No. : 78-93-3 )

Exposure route : Dermal

Species : Rabbit

Effective dose : 13 g/kg

### Acute inhalation toxicity

Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation

Species : Rat

Effective dose : 21 mg/l

Exposure time : 4 h

Parameter : LC50 ( BUTANONE ; CAS No. : 78-93-3 )

Exposure route : Inhalation

Species : Mouse

Effective dose : 40 mg/l

### 11.3 Other adverse effects

Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. Delayed reactions possible (breathing problems, coughs, asthma) Eye contact: irritation. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible.

### 11.4 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

Parameter : LC50 ( DIMETHYL SULFOXIDE ; CAS No. : 67-68-5 )

Species : Acute (short-term) fish toxicity

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : > 25000 mg/l

Exposure time : 96 h

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

Parameter : Acute (short-term) daphnia toxicity ( DIMETHYL SULFOXIDE ; CAS No. : 67-68-5 )

Species : Daphnia magna (Big water flea)

Evaluation parameter : Acute (short-term) daphnia toxicity

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Effective dose : 24600 mg/l  
Exposure time : 48 h

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

Parameter : EC50 ( DIMETHYL SULFOXIDE ; CAS No. : 67-68-5 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 17000 mg/l  
Exposure time : 72 h

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects

No information available.

#### 12.7 Further ecological information

##### Additional information

Product should not be released into water without pre-treatment (biological sewage plant).

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product/Packaging disposal

##### Waste treatment options

##### Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. The generation of waste should always as far as possible be avoided, or be limited to a minimum. Disposal of this product, solutions and any by-products should at all times be in accordance with applicable legislation in the field of environmental protection and waste disposal legislation and any other regional or local regulations.

### SECTION 14: Transport information

#### 14.1 UN number

UN 1263

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

PAINT RELATED MATERIAL

##### Sea transport (IMDG)

PAINT RELATED MATERIAL

##### Air transport (ICAO-TI / IATA-DGR)

PAINT RELATED MATERIAL



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## 14.3 Transport hazard class(es)

### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special provisions : 640E · LQ 7 · E 1  
Hazard label(s) : 3

### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 51 · E 1  
Hazard label(s) : 3

### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

## 14.4 Packing group

III

## 14.5 Environmental hazards

Land transport (ADR/RID) : No  
Sea transport (IMDG) : No  
Air transport (ICAO-TI / IATA-DGR) : No

## 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

None

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

None

### 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

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H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
10	Flammable.
11	Highly flammable.
22	Harmful if swallowed.
36	Irritating to eyes.
41	Risk of serious damage 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.

### 16.6 Training advice

Make sure that employees are aware of the safety risk. People wearing breathing apparatus must be appropriately trained.

### 16.7 Additional information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

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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.

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