



V-16

Print date: 28.10.21 Page 1 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

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

#### 1.1 Product identifier

# MOUSSOL®-APS LV 3/3 F-15 #6341

UFI: PEJJ-K0G8-F00Q-A6M7

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

Use of the substance/mixture

Fire-extinguishing foam

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

Manufacturer Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG

 Street
 Liebigstraße 5

 Postal code/City
 D-22113 Hamburg

 Country
 Deutschland

 Telephone
 +49 (0)40/736168-0

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 +49 (0)40/736168-60

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 labor@sthamer.com

 Website
 http://sthamer.com

**Department responsible for information** Dr. Prall, +49 (0)40/736168-31

**Emergency telephone number** +49 (0)40/736168-0

# 1.4 Emergency telephone number

GIZ-Nord Poisons Centre of the University of Göttingen

Telephone +49 (0)551/19240

#### **SECTION 2: Hazards identification**

The information in this section and in all following sections (unless otherwise stated) refer to the product in the delivery condition (concentrate). The ready-to-use solutions prepared according to the dilution recommendation are to be classified differently (see Section 16).

#### 2.1 Classification of the substance or mixture

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

Eye Irrit. 2 H319 - STOT RE 2 H373

#### 2.2 Label elements

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

Hazard pictograms



Signal word WARNING

Hazard statements H319 Causes serious eye irritation.

H373.8 May cause damage to kidneys through prolonged or repeated exposure if

swallowed.

Precautionary statements P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection/....

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.





V-16

Print date: 28.10.21 Page 2 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

Classification procedure On basis of test data./Experimental data

#### 2.3 Other hazards

#### **Endocrine disrupting properties**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

This substance does not have endocrine disrupting properties with respect to humans.

2-(2-BUTOXYETHOXY)ETHANOL:

This substance does not have endocrine disrupting properties with respect to humans.

OCTYLSULFATE:

This substance does not have endocrine disrupting properties with respect to humans.

DECYLSULFATE:

This substance does not have endocrine disrupting properties with respect to humans.

ALKYLPOLYGLYCOSIDE:

This substance does not have endocrine disrupting properties with respect to humans.

FLUOROSURFACTANT:

This substance does not have endocrine disrupting properties with respect to humans.

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

This substance does not have endocrine disrupting properties with respect to humans.

#### Results of PBT and vPvB assessment

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

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

2-(2-BUTOXYETHOXY)ETHANOL:

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

OCTYLSULFATE:

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

DECYLSULFATE:

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

ALKYLPOLYGLYCOSIDE:

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

FLUOROSURFACTANT:

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

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently.

Can harm the aquatic fauna when entering surface waters.

Can harm the bacteria population in waste water treatment plants when entering the sewerage system.

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

The product contains fluorosurfactants that are not completely biodegradable.

Concentrated surfactant solutions always pose a danger to aquatic life because they greatly reduce the surface tension of water thus disrupting all life processes associated with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be hindered by the strong foam formation.

#### **SECTION 3: Composition / information on ingredients**

#### 3.1 Substances

not applicable





V-16

Print date: 28.10.21 Page 3 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

#### 3.2 Mixtures

#### 1.2-ETHANDIOL

CAS No.: 107-21-1 EC No.: 203-473-3

REACH No.: 01-2119456816-28-XXXX

Concentration: 20 - 25%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS08; Acute Tox. 4-STOT RE 2; H302-H373.8

#### 2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5 EC No.: 203-961-6

REACH No.: 01-2119475104-44-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; H319

#### **OCTYLSULFATE**

CAS No.: 142-31-4 EC No.: 205-535-5

REACH No.: 01-2119966154-35-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318

#### **DECYLSULFATE**

CAS No.: 142-87-0 EC No.: 205-568-5

REACH No.: 01-2119970328-30-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1; H302-H315-H318

#### **ALKYLPOLYGLYCOSIDE**

CAS No.: 68515-73-1 EC No.: 500-220-1

REACH No.: 01-2119488530-36-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1; H318

# FLUOROSURFACTANT

Concentration: 0,1 - 1%

The concentration of the raw material is below the limit value above which a substance contained in a mixture must be listed (Regulation (EU) 2020/878, Section 3.2.1, Table 1.1). The listing is voluntary as part of the customer information.

#### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 1 - 5%

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

#### **WATER**

CAS No.: 7732-18-5 Concentration: 49 - 74,9%

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The product does not contain any relevant amounts of substances that are on the SVHC list.

Full text of H- and EUH-statements: see section 16.

#### **SECTION 4: First aid measures**





V-16

Print date: 28.10.21 Page 4 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

#### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

Wash thoroughly the body (shower or bath).

Observe risk of aspiration if vomiting occurs.

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Provide fresh air.

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

#### In case of skin contact

Wash immediately with:: Water

#### After eye contact

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.

#### Following ingestion

Do NOT induce vomiting.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Dizziness

Nausea

Gastrointestinal complaints

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

If unconscious but breathing normally, place in recovery position and seek medical advice.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

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

The product itself does not burn.

#### 5.3 Advice for firefighters

Regardless of the admixture of a foam agent, extinguishing water can be heavily contaminated with hazardous substances due to the absorption of fire residues and should therefore, if possible, not enter the sewage system or bodies of water.

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

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

Provide adequate ventilation.

#### 6.2 Environmental precautions

Cover drains.

Do not allow to enter into soil/subsoil.

Revision date: 19.10.2021 Version V15: 25.05.2018





V-16

Print date: 28.10.21 Page 5 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

Do not allow to enter into surface water or drains.

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

Take up mechanically, placing in appropriate containers for disposal.

Treat the recovered material as prescribed in the section on waste disposal.

Suitable material for taking up

Sand

Sawdust

Chemical binding agents, containing acids

#### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid

Skin contact

Eye contact

Wear personal protection equipment (refer to section 8).

# Measures to prevent fire

The product is not

oxidising

Combustible

Flammable

Explosive

Highly flammable

No special fire protection measures are necessary.

#### **Environmental precautions**

Shafts and sewers must be protected from entry of the product.

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

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

Technical measures and storage conditions

Do not store at temperatures above: +50°C

# Requirements for storage rooms and vessels

Suitable container/equipment material

Refined steel

Polyethylene (PE)

Unsuitable container/equipment material

Aluminium

Light metal

Copper

7inc

Alloy, containing copper

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





V - I O

Print date: 28.10.21 Page 6 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

Alloy, contains light metal

Iron.

Steel

#### Hints on joint storage

Storage class

12: non-combustible liquids that cannot be assigned to any of the above storage classes

#### 7.3 Specific end use(s)

Fire-extinguishing foams based on synthetic surfactants

Do not use for cleaning purposes.

#### Recommendation

Observe technical data sheet.

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

#### 8.1 Control parameters

Substance name: 1,2-ETHANDIOL

CAS No.: 107-21-1

REACH No.: 01-2119456816-28-XXXX

### **United Kingdom**

Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (EN) short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (EN)

#### **European Union**

Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (EC) short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (EC)

#### Germany

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE) short-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): Peak (DE)

### Ireland

Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (IE) short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (IE)

#### Substance name: 2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5

REACH No.: 01-2119475104-44-XXXX

### **United Kingdom**

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EN) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EN)

#### **European Union**

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EC) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EC)

#### Germany

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): Peak (DE)

#### Ireland

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (IE) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (IE)

#### 8.2 Exposure controls

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Avoid contact with skin, eyes and clothes.





V-16

Print date: 28.10.21 Page 7 of 23

MOUSSOL®-APS LV 3/3 F-15 #6341

Remove contaminated, saturated clothing.

Wash contaminated clothing prior to re-use.

Wash hands before breaks and after work.

Apply skin care products after work.

#### Eye/face protection

Suitable eye protection

Eye glasses with side protection

goggles

Face protection shield

Recommended eye protection articles

**DIN EN 166** 

#### Hand protection

Suitable gloves type

Gloves with long cuffs

Suitable material

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

Breakthrough time

120 min.

Thickness of the glove material

> 0.6 mm

Recommended glove articles

**EN ISO 374** 

Breakthrough times and swelling properties of the material must be taken into consideration.

# **Body protection**

Body protection: not required.

#### Respiratory protection

Usually no personal respirative protection necessary.

#### **Environmental exposure controls**

Store concentrate according to national regulations.

Do not let the concentrate get into the environment.

If possible, hold back the application solution and dispose of after use.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

) Physical state : Liquid

b) Colourc) Odourdourglycol, Ether, Surfactant

d) Melting point/freezing point : -15°C EN 1568:2018 e) Melting point/freezing point : > 100°C DIN 51751

f) Flammability : not applicable

g) Lower and upper explosion limit/flammability

limit : No data available

h) Flash point : No flash point up to 100 °C.

i) Ignition temperature in °C : not applicable
 j) Decomposition temperature : No data available





V-16

Print date: 28.10.21 Page 8 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

рΗ DIN 19268 at °C 20 k) : 6,5 - 8,5 Viscosity at °C 20 : < 15 mm<sup>2</sup>/s DIN 51562 Newton at °C -15 : < 50 mm<sup>2</sup>/s DIN 51562 Newton

m) Solubility : Water: completely miscible OECD 105

n) Partition coefficient n-octanol/water (log

value) : not applicable
o) Vapour pressure : No data available

p) Density and/or relative

**density at °C 20** : 1,040 - 1,080 g/ml DIN 12791

q) Relative vapour density
 r) particle characteristics
 No data available
 not applicable

#### 9.2 Other information

#### Information with regard to physical hazard classes

a) **Explosives** not applicable **Explosives** b) not applicable c) Aerosols not applicable Oxidising gas d) not applicable Gases under pressure e) not applicable Flammable liquids f) not applicable Flammable solids g) not applicable h) Self-reactive substances and mixtures not applicable Pyrophoric liquids i) not applicable Pyrophoric solids j) not applicable k) Self-heating substances and mixtures not applicable

I) Substances or mixtures which, in contact with

water, emit flammable gases
 m) Oxidising liquids
 n) Oxidizing solids
 not applicable
 not applicable
 o) Organic peroxides
 i not applicable
 in not applicable

p) Corrosive to metals : See section 7 of the safety data sheet.

q) Desensitised explosives : not applicable

# Other safety characteristics

a) Mechanical sensitivity : not applicable

b) Self-accelerating polymerisation temperature

(SAPT) : not applicable
c) formation of explosible dust/air mixtures : not applicable
d) acid/alkaline reserve : not applicable
e) Evaporation rate : No data available

f) miscibility : Water: completely miscible

g) Conductivity :  $\sim 4100 \,\mu\text{S/cm}$ 

h) Corrosiveness : Skin corrosion/irritation: none

Serious eye damage/irritation: irritant

i) gas group
 j) Redox potential
 k) radical formation potential
 l) photocatalytic properties
 i not applicable
 i not applicable
 i not applicable

#### Additional hazards

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

# **SECTION 10: Stability and reactivity**





V-16

Print date: 28.10.21 Page 9 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

#### 10.1 Reactivity

#### Materials to avoid

Alkali (lye), concentrated

Alkali metals

Acid, concentrated

Oxidising agent, strong

Reducing agent, strong

Acid halides

#### 10.2 Chemical stability

No special measures are necessary.

#### 10.3 Possibility of hazardous reactions

No special measures are necessary.

#### 10.4 Conditions to avoid

Do not store at temperatures above: +50°C

#### 10.5 Incompatible materials

See section 7. No additional measures necessary.

#### 10.6 Hazardous decomposition products

Pyrolysis products, containing fluorine

Fluorinated hydrocarbons

Hydrofluoric acid

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

# a) Acute toxicity

#### Acute oral toxicity

Preparation related information

LD50 > 2000 mg/kg The acute oral toxicity is corresponding to GHS-category 5.

Species Rat

Method On basis of test data.: OECD 420

Information on ingredients

1,2-ETHANDIOL:

LD50 (7d) 2310 mg/kg ==>

Harmful if swallowed.

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

LD50 (14d) 5530 mg/kg ==>

The acute oral toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

LD50 (14d) > 2000 mg/kg ==>

The acute oral toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

LD50 (14d) 1200 mg/kg ==>

Harmful if swallowed.

(Source: ECHA database «Registered substances»)

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





V-16

Print date: 28.10.21 Page 10 of 23

ALKYLPOLYGLYCOSIDE:

LD50 (14d) > 2000 mg/kg ==>

The acute oral toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

LD50 (14d) > 5000 mg/kg ==>

The acute oral toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

#### Acute dermal toxicity

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

LD50 (14d) > 3500 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

LD50 (1d) 2764 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

LD50 (14d) > 2000 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

LD50 (14d) > 2000 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

LD50 (14d) > 2000 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

LD50 (14d) > 5000 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

#### Acute inhalation toxicity

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

LC50 (6h) > 2,5 mg/L ==>

The acute inhalation toxicity related to vapours is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

NOEC (2h) 29 ppm ==>

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





V-16

Print date: 28.10.21 Page 11 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

The acute inhalation toxicity related to vapours is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

No data available

No information available. No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

DECYLSULFATE:

No data available

No information available. No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

No data available

No information available. No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No data available

No information available. No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

#### b) Skin corrosion/irritation

Preparation related information

non-irritant.

Species Albino rabbit

Method On basis of test data.: OECD 404

Information on ingredients

1,2-ETHANDIOL:

non-irritant.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

non-irritant.

(Source: Safety Data Sheet)

OCTYLSULFATE:

Causes skin irritation.

(Source: Safety Data Sheet)

DECYLSULFATE:

Causes skin irritation.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

non-irritant.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

non-irritant.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

non-irritant.

(Source: Safety Data Sheet)

#### c) Serious eye damage/irritation

Preparation related information

Causes eye irritation.

Species Albino rabbit

Method On basis of test data.: OECD 404

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





5:...

Print date: 28.10.21 Page 12 of 23

# Information on ingredients

1,2-ETHANDIOL:

non-irritant.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

Causes serious eve irritation.

(Source: Safety Data Sheet)

OCTYLSULFATE:

Causes serious eye damage.

(Source: Safety Data Sheet)

DECYLSULFATE:

Causes serious eye damage.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

Causes serious eye damage.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

non-irritant.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

non-irritant.

(Source: Safety Data Sheet)

#### d) Respiratory or skin sensitisation

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

not sensitising.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

not sensitising.

(Source: Safety Data Sheet)

OCTYLSULFATE:

not sensitising.

(Source: Safety Data Sheet)

DECYLSULFATE:

not sensitisina.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

not sensitising.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

not sensitising.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

not sensitising.

(Source: Safety Data Sheet)

#### e) Germ cell mutagenicity

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





V - I 0

Print date: 28.10.21 Page 13 of 23

# 2-(2-BUTOXYETHOXY)ETHANOL:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

#### OCTYLSULFATE:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

#### DECYLSULFATE:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

#### ALKYLPOLYGLYCOSIDE:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

#### FLUOROSURFACTANT:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

#### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

#### f) Carcinogenicity

#### Preparation related information

There are no data available on the mixture itself.

#### Information on ingredients

#### 1,2-ETHANDIOL:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

#### 2-(2-BUTOXYETHOXY)ETHANOL:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

#### OCTYLSULFATE:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

#### DECYLSULFATE:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

# ALKYLPOLYGLYCOSIDE:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

#### FLUOROSURFACTANT:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

# INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

#### g) Reproductive toxicity

#### Preparation related information

There are no data available on the mixture itself.

#### Information on ingredients

#### 1,2-ETHANDIOL:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

#### 2-(2-BUTOXYETHOXY)ETHANOL:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

OCTYLSULFATE:

Revision date: 19.10.2021 Version V15: 25.05.2018





# Print date: 28.10.21

Page 14 of 23

(Source: Safety Data Sheet)

DECYLSULFATE:

No indications of human reproductive toxicity exist.

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

#### h) STOT-single exposure

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

No known symptoms to date.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

No known symptoms to date.

(Source: Safety Data Sheet)

OCTYLSULFATE:

No known symptoms to date.

(Source: Safety Data Sheet)

DECYLSULFATE:

No known symptoms to date.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

No known symptoms to date.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No known symptoms to date.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No known symptoms to date. (Source: Safety Data Sheet)

#### i) STOT-repeated exposure

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

No known symptoms to date.

(Source: Safety Data Sheet)

OCTYLSULFATE:

No known symptoms to date.

(Source: Safety Data Sheet)

DECYLSULFATE:

No known symptoms to date.

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





**V** =

Print date: 28.10.21 Page 15 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

No known symptoms to date.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No known symptoms to date.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No known symptoms to date. (Source: Safety Data Sheet)

#### j) Aspiration hazard

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

No known symptoms to date.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

No known symptoms to date.

(Source: Safety Data Sheet)

OCTYLSULFATE:

No known symptoms to date.

(Source: Safety Data Sheet)

DECYLSULFATE:

No known symptoms to date.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

No known symptoms to date.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No known symptoms to date.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No known symptoms to date. (Source: Safety Data Sheet)

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

OCTYLSULFATE:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

DECYLSULFATE:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSÍDE:

This substance does not have endocrine disrupting properties with respect to humans.

Revision date: 19.10.2021 Version V15: 25.05.2018





V-16

Print date: 28.10.21 Page 16 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

#### Other information

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

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

Preparation related information

Effective dose LC50 : ~ 2000 mg/L

Exposure time : 96 h

Species : Leuciscus idus (golden orfe)
Method : On basis of test data.: OECD 203

Information on ingredients

1,2-ETHANDIOL:

LC50 (96h) > 72860 mg/L

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

LC50 (96hr) 1300mg/L

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

LC50 (96h) > 100 mg/L; NOEC (96h) 100 mg/L

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

LC50 (48h) 13 mg/L

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

LC50 (96h) 100,81 mg/L

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

LC50 (96h) > 35 mg/L

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

#### Acute (short-term) toxicity to crustacea

Preparation related information

Effective dose EC50 : ~ 2100 mg/L

Exposure time : 48 h

Species : Daphnia magna (Big water flea)
Method : On basis of test data.: OECD 202

Information on ingredients

1,2-ETHANDIOL:

EC50 (48h) > 13900 mg/L

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

EC50 (48hr) > 1101 mg/L

Revision date: 19.10.2021 Version V15: 25.05.2018





V-16

Print date: 28.10.21 Page 17 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

EC50 (48h) > 100 mg/L; NOEC (48 h) 100 mg/L (Source: ECHA database «Registered substances»)

DECYLSULFATE:

EC50 (48h) > 100 mg/L

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

EC50 (48h) > 100 mg/L

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

EC50 (48h) 144 mg/L

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

#### Acute (short-term) toxicity to algae and cyanobacteria

Preparation related information

Effective dose EC50 : ~ 600 mg/L

Exposure time : 72 h

Species : Scenedesmus subspicatus

Method : On basis of test data.: OECD 201

Information on ingredients

1,2-ETHANDIOL:

EC50 (96h) > 6500 mg/L; NOEC (96h) 479 mg/L

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

EC50 (72h) 1 101 mg/L

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

EC50 (72h) > 511 mg/L; NOEC (72h) 199 mg/L

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

EC50 (72h) 8,64 mg/L; NOEC (72h) 0,95 mg/L

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

EC50 (72h) 27,22 mg/L; NOEC (72h) 6,25 mg/L

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

EC50 (72h) 3,26 mg/L

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

#### Effects in sewage plants

Preparation related information

Analytical method : Respiratory inhibition of municipal activated sludge.

3800 mg/L  $\blacktriangleright$  Concentration : 100% Dilution : > 263 126600 mg/L  $\blacktriangleright$  Concentration : 3% Dilution : > 8

Method : On basis of test data.: DIN 38412/part 3 (TTC)

Information on ingredients

1,2-ETHANDIOL:

NOEC (0,5h) > 1995 mg/L

(Source: ECHA database «Registered substances»)

Revision date: 19.10.2021 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





V-16

Print date: 28.10.21 Page 18 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

2-(2-BUTOXYETHOXY)ETHANOL:

NOEC (0,5h) 1995 mg/L

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

EC50 (3h) 135 mg/L

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

EC50 (3h) 135 mg/L

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

EC50 (6h) > 560 mg/L

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

EC50 (3h) >1000 mg/L

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

The product contains fluorosurfactants that are not completely biodegradable.

Some of the components are poorly biodegradable.

#### Remark

Observe local regulations concerning effluent treatment.

Special pre-treatments are necessary.

# 12.2 Persistence and degradability

# Biodegradation

Preparation related information

Readily biodegradable (according to OECD criteria).

Additional information : The product contains fluorosurfactants that are not completely biodegradable.

Degradation rate :  $\sim 98\%$ Test duration : 28 d

Analytical method : BOD (% of COD).

Method : On basis of test data.: OECD 301F
Type : Aerobic biological treatment

Information on ingredients

1,2-ETHANDIOL:

> 90% (10d) OECD 301A

Readily biodegradable (according to OECD criteria).

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

92% (28d) OECD 301 E

Readily biodegradable (according to OECD criteria).

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

93,5% (29d) OECD 301 B

Readily biodegradable (according to OECD criteria).

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

92% (30d) OECD 301 D

Readily biodegradable (according to OECD criteria).

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

70% (28d) OECD 301 A

Revision date: 19.10.2021 Version V15: 25.05.2018 SD - 6341 - V16 - MOUSSOL-APS LV 3x3 F-15 #6341 - EN





Print date: 28.10.21 Page 19 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

Readily biodegradable (according to OECD criteria).

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

0% (28d) OECD 301 F

Not readily biodegradable (according to OECD criteria)

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

> 70% (28d) OECD 301

Readily biodegradable (according to OECD criteria).

(Source: Safety Data Sheet)

Chemical oyxgen demand (COD)

~ 585000 mg\*O2/L ► Concentration : 100% Method DIN EN 38409-H41-1 ~ 17550 mg\*O2/L ► Concentration : 3% Method DIN EN 38409-H41-1

Biochemical oxygen demand

~ 361000 mg\*O2/L ► Concentration : 100% DIN EN 1899-1 Method Test duration 5 d ~ 10830 mg\*O2/L > Concentration : 3% Method DIN EN 1899-1 Test duration 5 d

**BOD5/COD** ratio

62%

#### 12.3 Bioaccumulative potential

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

log Kow -1,36

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

2-(2-BUTOXYETHOXY)ETHANOL:

 $\log Kow < 3$ 

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

OCTYLSULFATE:

 $\log Pow < -2.31$ 

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

DECYLSULFATE:

log Pow 1.72

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

ALKYLPOLYGLYCOSIDE:

log Kow < 1,77

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

BCF < 5.1

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class

No information available. No classification in the above-mentioned hazard class

Version V15: 25.05.2018

(Source: Safety Data Sheet)

Revision date: 19.10.2021





V-16

Print date: 28.10.21 Page 20 of 23

# 12.4 Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

#### 12.5 Results of PBT and vPvB assessment

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

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

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

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

(Source: Safety Data Sheet)

OCTYLSULFATE:

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

(Source: Safety Data Sheet)

DECYLSULFATE:

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

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

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

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

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

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

(Source: Safety Data Sheet)

### 12.6 Endocrine disrupting properties

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1,2-ETHANDIOL:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

OCTYLSULFATE:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

DECYLSULFATE:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

ALKYLPOLYGLYCOSIDE:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

This substance does not have endocrine disrupting properties with respect to humans.

(Source: Safety Data Sheet)

# 12.7 Other adverse effects





V-16

Print date: 28.10.21 Page 21 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

The product contains fluorosurfactants that are not completely biodegradable.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Dispose of waste according to applicable legislation.

#### Waste codes/waste designations according to EWC/AVV

Waste code product

16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

1603 off-specification batches and unused products
 160305\* organic wastes containing dangerous substances

#### Waste code packaging

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT

OTHERWISE SPECIFIED

1501 packaging (including separately collected municipal packaging waste)
 150110\* packaging containing residues of or contaminated by dangerous substances

#### Remark

Delivery to an approved waste disposal company.

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

#### **SECTION 14: Transport information**

# 14.1 UN number or ID number

none

# 14.2 UN proper shipping name

not applicable

#### 14.3 Transport hazard class(es)

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Inland waterway craft (ADN)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

#### 14.4 Packing group

not applicable

#### 14.5 Environmental hazards

none

Marine pollutant : No

# 14.6 Special precautions for user

none





V-16

Print date: 28.10.21 Page 22 of 23

14.7 Maritime transport in bulk according to IMO instruments

not applicable

# SECTION 15: Regulatory information

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

#### **EU** legislation

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Regulation (EC) No. 304/2003 of the European parliament and of the council concerning the export and import of dangerous chemicals

not applicable

#### Directive 96/59/EC (PCB-guideline)

not applicable

#### Regulation (EC) No. 648/2004 (Detergents regulation)

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

#### Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight:: max. 5

# Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases

not applicable

### Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]

The product fulfills all requirements and limit values of this EU regulation.

#### Regulation (EC) No 2020/784 [PFOA-Regulation]

The product fulfills all requirements and limit values of this EU regulation.

#### Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]

The product fulfills all requirements and limit values of this EU regulation.

# National regulations

#### Störfallverordnung

This product is not classified according to StörfallVO.

#### Water hazard class

slightly hazardous to water (WGK 1)

Self-classification according to AwSV (mixture).

# Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

not applicable

# 15.2 Chemical Safety Assessment

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

# **SECTION 16: Other information**





Print date: 28.10.21 Page 23 of 23

# MOUSSOL®-APS LV 3/3 F-15 #6341

The product described in the Safety Data Sheet may only be used for its intended purpose. For exercises please observe the recommendations of the technical committee of BMU/LAMA. The details in this safety data sheet are based on today's stand of our knowledge and is applicable to the product with regard to appropriate safety precautions. They do not represent any guarantee of the properties of the product and do not establish any legal relationship.

Please refer to our internet website for more information: www.sthamer.com

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.

#### Classification for the 3% application solution of MOUSSOL-APS LV 3/3 F-15 #6341:

The information in this safety data sheet only applies to the unchanged product in the delivery condition. An application solution prepared therefrom by diluting it with water as recommended usually has significantly fewer hazardous features due to the dilution principle and can even be unclassified. See also the environmental data sheet provided by us.

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

H302 Harmful if swallowed or if inhaled.
 H315 Causes skin and eye irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

H373.8 May cause damage to kidneys through prolonged or repeated exposure if swallowed.

Revision date: 19.10.2021 Version V15: 25.05.2018