



# SAFETY DATA SHEET

## CITRONELLA ESSENCE BASE

Issued on 03/12/2018 - Rel. # 3 on 01/29/2019

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In conformity to Regulation (EU) 2015/830

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

#### 1.1. Product identifier

Product code : CITRONELLA ESSENCE BASE

Trades code : TH\_027.

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

Sectors of use:

Private households.[SU21]

Product category:

Room fragrance

Uses advised against

Do not use for purposes other than those listed

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

TOP HOUSE S.r.l.

Zona Industriale Piane S.Andrea, snc

64032 Atri (TE) - Italy

Tel. +39 085 8780094 - +39 085 8780042

Fax +39 085 8780832

email: thd@thd-tophouse.com

web: thd-tophouse.com

Produced by

TOP HOUSE S.r.l.

Zona Industriale Piane S.Andrea, snc - 64032 Atri (TE)

Tel. +39 085 8780094 - 085 8780042

Fax +39 085 8780832

#### 1.4. Emergency telephone number

TOP HOUSE S.r.l. - Tel. +39 085 8780094 - +39 085 8780042

Centro Antiveleni di Torino: Tel. 011 6637637 - CAV Azienda ospedaliera "S.G.Battista" - Molinette (TO)

Centro Antiveleni di Pavia: Tel. 0382 24444 - CAV IRCCs Fondazione Mugerì (PV)

Centro Antiveleni di Roma: Tel. 06 3054343 - CAV Policlinico Gemelli (RM)

Centro Antiveleni di Napoli: Tel.081 7472870 - CAV Ospedale Cardarelli (NA)

Centro Antiveleni di Genova: Tel. 010 5636245 - CAV Ospedale G. Gaslini (GE)

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS02, GHS05, GHS07

Hazard Class and Category Code(s):



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Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1, Aquatic Chronic 3

Hazard statement Code(s):

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

The product easily inflames if subordinate to an ignition source.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

The product, if brought into contact with skin can cause skin sensitization.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

The product is dangerous to the environment as it is harmful to aquatic life with long lasting effects

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:



Pictogram, Signal Word Code(s):

GHS02, GHS05, GHS07 - Danger

Hazard statement Code(s):

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal

P501 - Dispose of contents/container according to local law.

Contains:

para menta-1,4(8) diene, citral, Eugenol, citronellal, Geraniol, Citronellol, D-limonene, Terpineol, (-)-Pin-2(3)-ene, Eucalyptol, Eucalyptus oil, beta-Pinene, [1S-(1a,3aβ,4a,8aβ)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII



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The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Legislative Decree n. 81 April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and amount of hazardous chemical agent and the method and frequency of exposure to the agent, you only a "moderate risk" for the health and safety of workers and that the measures envisaged in the same legislative decree are sufficient to reduce the risk.

### SECTION 3. Composition/information on ingredients

#### 3.1 Substances

Irrilevant

#### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
citronellal	> 1 <= 5%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319		106-23-0	203-376-6	01-2119474 900-37-xxxx
Geraniol	>= 3 <= 5%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318		106-24-1		
propan-2-ol	> 1 <= 5%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	603-117-00-0	67-63-0	200-661-7	
Citronellol	> 1 <= 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		106-22-9		
D-limonene	> 1 <= 5%	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	601-029-00-7	5989-27-5	205-341-0	
Terpineol	> 1 <= 5%	Skin Corr. 2, H315; Eye Irrit. 2, H319		8000-41-7	232-268-1	
(-)-Pin-2(3)-ene	> 0,1 <= 1%	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317		80-56-8	201-291-9	211951922 3-49-0002
[1S-(1a,3aβ,4a,8aβ)]-decaidro-4,8,8-trimetile-9-metilene-1,4-metan oazulene	> 0,1 <= 1%	Asp. Tox. 1, H304; Skin Sens. 1A, H317; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410		475-20-7	207-491-2	
Eugenol	> 0,1 <= 1%	Skin Sens. 1, H317; Eye Irrit. 2, H319		97-53-0		
Camfene	> 0,1 <= 1%	Flam. Sol. 1, H228; Eye Irrit. 2, H319; Aquatic Chronic 1, H410		79-92-5	201-234-8	
para menta-1,4(8) diene	> 0,1 <= 1%	Skin Sens. 1B, H317; Aquatic Acute 1,		586-62-9	209-578-0	



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Substance	Concentration	Classification	Index	CAS	EINECS	REACH
		H400; Aquatic Chronic 1, H410				
beta-Pinene	> 0,1 <= 1%	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Corr. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410		127-91-3	204-872-5	01-2119519 230-54-000 0
citral	> 0,1 <= 1%	Skin Irrit. 2, H315; Skin Sens. 1, H317	605-019-00-3	5392-40-5	226-394-6	
Eucalyptus oil	> 0,1 <= 1%	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411		8000-48-4	283-406-2	
alcool C-13 oxo	> 0,1 <= 1%	Flam. Sol. 1, H228; Eye Irrit. 2, H319; Aquatic Chronic 1, H410		68526-86-3	271-235-6	01-2119454 259-32
Eucaliptol	> 0,1 <= 1%	Flam. Liq. 3, H226; Skin Sens. 1, H317		470-82-6	207-431-5	01-2119967 772-24-000 0

### Fractionated global values

H319	= 12,65	H411	= 0,30	H400	= 1,95	H317	= 11,10
H410	= 2,25	H315	= 13,80	H318	= 3,75	H335	= 2,25
H226	= 2,10	H228	= 0,30	H304	= 0,60	H225	= 82,00
H336	= 4,10						

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

#### Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

#### Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

#### Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine



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

No data available.

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

If skin irritation occurs: Get medical advice/attention.  
Immediately call a POISON CENTER/doctor.

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

Advised extinguishing agents:  
CO2 or dry powder extinguisher

Extinguishing means to avoid:  
Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

#### 5.3. Advice for firefighters

Use protection for the breathing apparatus  
Safety helmet and full protective suit.  
The spray water can be used to protect the people involved in the extinction  
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)  
Keep containers cool with water spray

### SECTION 6. Accidental release measures

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

6.1.1 For non-emergency personnel:  
Leave the area surrounding the spill or release. Do not smoke  
Wear gloves and protective clothing

6.1.2 For emergency responders:  
Wear gloves and protective clothing.  
Eliminate all unguarded flames and possible sources of ignition. No smoking.  
Provision of sufficient ventilation.  
Evacuate the danger area and, in case, consult an expert.

#### 6.2. Environmental precautions

Contain spill with earth or sand.  
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.  
Discharge the remains in compliance with the regulations



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

##### 6.3.1 For containment:

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material. Prevent it from entering the sewer system.

##### 6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

##### 6.3.3 Other information:

Nothing in particular.

#### 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

## SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

In residential areas do not use on large surfaces.

Do not smoke at work

At work do not eat or drink.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

Keep containers tightly closed.

Always store in well ventilated areas.

Never close the container tightly, leave a chance to vent

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

#### 7.3. Specific end use(s)

Private households.:

Handle with care.

Store in a ventilated place away from heat sources.

Keep container tightly closed.

## SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Related to contained substances:

propan-2-ol:

TLV: TWA 200 ppm 400 ppm as STEL A4 (not classifiable as a human carcinogen); (ACGIH 2004).

MAK: 200 ppm 500 mg/m peak limitation Category: II (2); Risk group for pregnancy: C; (DFG 2004).

D-limonene:

MAK: 20 ppm mg/m 110 skin sensitization (Sh); Peak limitation category: II (2); Risk group for pregnancy: C; (DFG



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2005).

### 8.2. Exposure controls

Appropriate engineering controls:  
Private households.:  
No specific control required.



Individual protection measures:

- (a) Eye / face protection  
When handling the pure product use safety glasses (spectacles cage) (EN 166).
- (b) Skin protection
  - (i) Hand protection  
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)
  - (ii) Other  
Wear normal work clothing.
- (c) Respiratory protection  
Not needed for normal use.
- (d) Thermal hazards  
No hazard to report

Environmental exposure controls:  
Related to contained substances:  
D-limonene:  
Do not let this chemical contaminates the environment.

## SECTION 9. Physical and chemical properties

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

Physical and chemical properties	Value	Determination method
Appearance	Liquid, clear.	
Odour	Charateristic.	
Odour threshold	not determined	
pH	7,2	EPA 150.1 1982
Melting point/freezing point	not determined	
Initial boiling point and boiling range	86°C	Phisical
Flash point	14°C	ASTM D 93 (2006)
Evaporation rate	not determined	
Flammability (solid, gas)	not determined	
Upper/lower flammability or explosive limits	not determined	



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Physical and chemical properties	Value	Determination method
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	0,821 kg/l	ASTM D1298-12b(2017)
Solubility(ies)	not determined	
Water solubility	not determined	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	Cinematica: 6,9 mm <sup>2</sup> /s Dinamica: 5,66 cP	ASTM D445-18
Explosive properties	not determined	
Oxidising properties	not determined	

### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Avoid contact with combustible materials. The product could catch fire. heat, open flames, sparks or hot surfaces.

### 10.5. Incompatible materials

Nothing in particular.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information



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### 11.1. Information on toxicological effects

ATE(mix) oral = ∞  
ATE(mix) dermal = ∞  
ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met
- (b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
- (d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met
- (f) carcinogenicity: based on available data, the classification criteria are not met
- (g) reproductive toxicity: based on available data, the classification criteria are not met
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met
- (j) aspiration hazard: based on available data, the classification criteria are not met

Related to contained substances:

propan-2-ol:

Routes of exposure: the substance can be absorbed into the body by inhalation of its vapour.

INHALATION RISK: A harmful contamination of air is reached quite slowly due to evaporation of the substance at 20 C; However, for spraying or scattering, much more quickly.

Effects of short-term exposure: the substance is irritating to eyes and respiratory tract. The substance determines effects on the central nervous system, causing depression. Exposure far above the OEL can lead to unconsciousness.

Effects of long-term or repeated: liquid degreasing characteristics.

Acute hazards/symptoms INHALATION cough. Vertigo. Drowsiness. Headache. Sore throat. See If Swallowed.

SKIN dry skin.

EYE Redness.

SWALLOWED, abdominal pain. Respiratory difficulties. Nausea. A State of unconsciousness. Vomiting. (Further see inhalation).

**N O T E** The use of alcoholic beverages enhances the harmful effect.

LD50 (rat) Oral (mg/kg body weight) = 2100

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2100

D-limonene:

INHALATION RISK: can not be given any indication about the speed with which it reaches a harmful contamination in the air due to evaporation of the substance at 20 C.

Effects of short-term exposure: the substance is irritating to the skin and mildly irritating to eyes effects of REPEATED EXPOSURE or long-term repeated or prolonged contact may cause skin sensitization acute hazards/symptoms

SKIN Redness. Pain.

Redness EYES

Eucalyptus oil:

Routes of entry: skin contact. Eye contact. Inhalation. Ingestion.

Toxicity: acute oral Toxicity (LD50): 2480 mg/kg [Rat].

Chronic effects for humans: toxic to the lungs.

Other toxic effects to humans:

Very dangerous in case of skin contact (irritant), of inhalation.

Hazardous in case of skin contact (absorbed through), of ingestion.

Special notes on toxicity for animals not available.

Special notes on chronic effects on humans: not available.

Special notes on other toxic effects on humans: not available.

Contact with skin: 10% solution (48 h) in petroleato, patch test: 0/25 irritation reactions. Ipersensibilit has been reported.



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(All Allergens. III. 2003/15/EEC): Limonene, Linalool.

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

D-limonene:

The substance is very toxic to aquatic organisms.

Eucalyptus oil:

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

The product is dangerous for the environment as it is toxic for aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

Related to contained substances:

D-limonene:

Possible bioaccumulation of this chemical in fish.

### 12.4. Mobility in soil

Related to contained substances:

propan-2-ol:

The product water and light fully miscible in 20 C.

Is lost by evaporation within one day. Large volumes can penetrate into the soil and contaminate groundwater.

### 12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

### 12.6. Other adverse effects

No adverse effects



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## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

## SECTION 14. Transport information

### 14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 1266

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg



### 14.2. UN proper shipping name

ADR/RID/IMDG: PRODOTTI PER PROFUMERIA contenenti solventi infiammabili

ADR/RID/IMDG: PERFUMERY PRODUCTS with flammable solvents

ICAO-IATA: PERFUMERY PRODUCTS with flammable solvents

### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 3

ADR/RID/IMDG/ICAO-IATA: Label : Limited quantities

ADR: Tunnel restriction code : D/E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-E, S-D

### 14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

### 14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

### 14.6. Special precautions for user

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement and the provisions A.D.R national regulations.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations



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#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

### SECTION 15. Regulatory information

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

Seveso category:

P5c - FLAMMABLE LIQUIDS

REGULATION (EU) No 1357/2014 - waste:

HP3 - Flammable

HP4 - Irritant — skin irritation and eye damage

HP14 - Ecotoxic

#### 15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

### SECTION 16. Other information

#### 16.1. Other information

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H318 = Causes serious eye damage.

H225 = Highly flammable liquid and vapour.

H336 = May cause drowsiness or dizziness.

H335 = May cause respiratory irritation.

H226 = Flammable liquid and vapour.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H304 = May be fatal if swallowed and enters airways.

H228 = Flammable solid.

H411 = Toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

#### GENERAL BIBLIOGRAPHY:

- Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
- Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
- Council Regulation (EC) no 758/2013 of the European Parliament
- Regulation (EC) no 2015/830 of the European Parliament
- Regulation (EC) No 528/2012 European Parliament and subsequent updates
- Commission Regulation (EC) No 790/2009 of 10 August 2009
- Commission Regulation (EU) No 286/2011 of 10 March 2011
- Commission Regulation (EU) No 618/2012 of 10 July 2012
- Commission Regulation (EU) No 487/2013 of 8 May 2013
- Council Regulation (EU) No 517/2013 of 13 May 2013
- Commission Regulation (EU) No 758/2013 of 7 August 2013
- Commission Regulation (EU) No 944/2013 of 2 October 2013
- Commission Regulation (EU) No 605/2014 of 5 June 2014
- Commission Regulation (EU) 2015/491 of 23 March 2015



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- Commission Regulation (EU) No 1297/2014 of 5 December 2014- Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty-Industrial Hygiene and Toxicology
- N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

#### Note to the user:

the information in this tab are based on knowledge available to us on the date of the latest version.

The user must ensure the fitness and completeness of the information in relation to the specific use of the product.

You should not interpret it as a guarantee of any specific property of the product.

For the use of the product does not fall under our direct control, the obligation of the user to observe under their own liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous

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