



# Safety Data Sheet

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

## LEU Imprägnat F 10

Version number: 4.0  
Replaces version of: 2019-07-03 (3)

Revision: 2020-09-28  
First version: 2016-01-07

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

#### 1.1 Product identifier

**Trade name** LEU Imprägnat F 10  
**Registration number (REACH)** Not relevant (mixture).  
**CAS number** not relevant (mixture)

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

**Relevant identified uses** Impregnating product

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

Uniter Chemie GmbH Telephone: ++49 (0) 2153 - 9789-0  
Lötscher Weg 48 Telefax: ++49 (0) 2153 - 9789-29  
D-41334 Nettetal e-mail: info@uniter.com  
Germany

**e-mail (competent person)** info@uniter.com

**National contact** ++49 (0) 2153 - 9789 - 15

#### 1.4 Emergency telephone number

As above or nearest toxicological information centre.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.10	aspiration hazard	1	Asp. Tox. 1	H304
4.1C	hazardous to the aquatic environment - chronic hazard	4	Aquatic Chronic 4	H413

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

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

**Signal word** danger

### Pictograms

**GHS08**



### Hazard statements

**H304** May be fatal if swallowed and enters airways.

**H413** May cause long lasting harmful effects to aquatic life.

### Precautionary statements

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

**P273** Avoid release to the environment.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P331** Do NOT induce vomiting.

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

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### Supplemental hazard information

**EUH066** Repeated exposure may cause skin dryness or cracking.

### Hazardous ingredients for labelling

Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates

Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates

Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates

## 2.3 Other hazards

This material is combustible, but will not ignite readily.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

#### Description of the mixture

Hazardous ingredients				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	EC No 918-167-1  REACH Reg. No 01-2119472146-39-XXXX	25 - < 50	Flam. Liq. 3 / H226 Asp. Tox. 1 / H304 Aquatic Chronic 4 / H413	
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	CAS No 246538-78-3  EC No 920-901-0  REACH Reg. No 01-2119456810-40-XXXX	10 - < 25	Asp. Tox. 1 / H304	
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	EC No 927-285-2  REACH Reg. No 01-2119480162-45-XXXX	10 - < 25	Asp. Tox. 1 / H304	
dioctyltin dilaurate	CAS No 3648-18-8  EC No 222-883-3	0.01 - < 0.1	Repr. 2 / H361d STOT RE 1 / H372 Aquatic Chronic 3 / H412	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

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If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

## **Following skin contact**

Wash with plenty of soap and water.

## **Following eye contact**

Rinse cautiously with water for several minutes.

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

## **Following ingestion**

Rinse mouth. Do not induce vomiting.

Call a physician immediately.

## **Notes for the doctor**

None.

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

Death following aspiration.

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

None.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>)

#### **Unsuitable extinguishing media**

water jet

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

Hazardous decomposition products: Section 10.

#### **Hazardous combustion products**

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### **5.3 Advice for firefighters**

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### **Special protective equipment for firefighters**

wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

#### Appropriate containment techniques

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

#### Specific notes/details

Vapours may form explosive mixtures with air.

#### Measures to protect the environment

Avoid release to the environment.

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## Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for safe storage, including any incompatibilities

### Flammability hazards

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

Take precautionary measures against static discharge.

Protect from sunlight.

### Incompatible substances or mixtures

Incompatible materials: see section 10.

### Protect against external exposure, such as

heat

### Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

Keep in a cool, well-ventilated place.

### Ventilation requirements

Provision of sufficient ventilation.

### Packaging compatibilities

Keep only in original container.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
GB	cycloalkanes (>C7)		WEL		800				EH40/2005
GB	normal and branched chain alkanes (>C7)		WEL		1,200				EH40/2005
GB	tin, organic compounds		WEL		0.1		0.2	Sn	EH40/2005

#### Notation

Sn calculated as Sn (tin)

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## Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
dioctyltin dilaurate	3648-18-8	DNEL	0.004 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
dioctyltin dilaurate	3648-18-8	DNEL	0.001 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
dioctyltin dilaurate	3648-18-8	DNEL	0.001 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
dioctyltin dilaurate	3648-18-8	PNEC	0.002 µg/l	freshwater
dioctyltin dilaurate	3648-18-8	PNEC	0 µg/l	marine water
dioctyltin dilaurate	3648-18-8	PNEC	100 mg/l	sewage treatment plant (STP)
dioctyltin dilaurate	3648-18-8	PNEC	0.028 mg/kg	freshwater sediment
dioctyltin dilaurate	3648-18-8	PNEC	0.003 mg/kg	marine sediment
dioctyltin dilaurate	3648-18-8	PNEC	0.006 mg/kg	soil
dioctyltin dilaurate: PNEC Oral Secondary Poisoning 0,02 mg/kg Food				

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

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## Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	this information is not available	>480 minutes (permeation: level 6)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Other protection measures

Protective clothing against liquid chemicals.

## Respiratory protection

Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid
Form	Fluid
Colour	Colourless
Odour	Characteristic
Odour threshold	These information are not available

#### Other safety parameters

pH (value)	These information are not available
Melting point/freezing point	These information are not available
Initial boiling point and boiling range	180 °C
Flash point	>60 °C
Evaporation rate	These information are not available
Flammability (solid, gas)	Not relevant (fluid)



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## Explosive limits

**Lower explosion limit (LEL)** These information are not available

**Upper explosion limit (UEL)** These information are not available

Vapour pressure these information are not available

Density 0.798 g/cm<sup>3</sup> at 20 °C

Vapour density These information are not available

Relative density These information are not available

## Solubility(ies)

**Water solubility** Not miscible in any proportion

## Partition coefficient

n-octanol/water (log KOW) These information are not available

Auto-ignition temperature >200 °C

Relative self-ignition temperature for solids Not relevant  
(Fluid)

Decomposition temperature These information are not available

## Viscosity

**Kinematic viscosity** <20 mm<sup>2</sup>/s at 40 °C

**Dynamic viscosity** These information are not available

Explosive properties Not explosive

Oxidising properties Shall not be classified as oxidising

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharge.

## 10.5 Incompatible materials

acids, oxidisers

## 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture							
Name of substance	EC No	Exposure route	End-point	Value	Species	Method	Source
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	oral	LD0	>5,000 mg/kg	rat	OECD Guideline 401	ECHA
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	dermal	LD0	>2,000 mg/kg	rat	OECD Guideline 402	ECHA
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	inhalation: dust/mist	LC0	>5,600 mg/l/4h	rat	OECD Guideline 403	ECHA
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	oral	LD50	>5,000 mg/kg	rat	OECD Guideline 401	ECHA
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	inhalation: dust/mist	LC50	≥6,100 mg/m <sup>3</sup> /4h	rat	OECD Guideline 403	ECHA
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	dermal	LD50	>2,000 mg/kg	rat	OECD Guideline 402	ECHA
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	oral	LD0	>5,000 mg/kg	rat	OECD Guideline 401	ECHA

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Acute toxicity of components of the mixture							
Name of substance	EC No	Exposure route	End-point	Value	Species	Method	Source
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	dermal	LD0	≥3,160 mg/kg	rabbit	OECD Guideline 402	ECHA
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	inhalation: dust/mist	LC0	≥5,600 mg/m <sup>3</sup> /4h	rat	OECD Guideline 403	ECHA
dioctyltin dilaurate	222-883-3	oral	LD0	>2,000 mg/kg	rat, female	OECD Guideline 423	ECHA

### Skin corrosion/irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Serious eye damage/eye irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Respiratory or skin sensitisation

#### Skin sensitisation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Respiratory sensitisation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Germ cell mutagenicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Carcinogenicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Reproductive toxicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - single exposure

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

May be fatal if swallowed and enters airways.

## Other information

Repeated exposure may cause skin dryness or cracking.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Based on available data, the classification criteria are not met.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	EC No	Endpoint	Value	Species	Method	Source	Notes	Exposure time
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	LL50	>1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA	read-across	96 h
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	LL50	>1,000 mg/l	Chaetogammarus marinus	EPA OPPTS 850.1020	ECHA	read-across	48 h
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	EL50	>1,000 mg/l	daphnia magna	OECD Guideline 202	ECHA	read-across	48 h
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	EL50	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	read-across	72 h
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	LL50	>1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA	read-across	96 h

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Name of substance	EC No	Endpoint	Value	Species	Method	Source	Notes	Exposure time
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	LL50	>1,000 mg/l	daphnia magna	OECD Guideline 202	ECHA	read-across	72 h
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	EL50	>1,000 mg/l	daphnia magna	OECD Guideline 202	ECHA		48 h
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	EL50	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	read-across	72 h
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	LL50	>1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA	read-across	96 h
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	LL50	>81,000 mg/l	saltwater invertebrates (Mysidopsis bahia)		ECHA	read-across	96 h
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	EL50	>1,000 mg/l	daphnia magna	OECD Guideline 202	ECHA	read-across	48 h
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	EL50	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	read-across	72 h
dioctyltin dilaurate	222-883-3	ErC50		aerobic microorganisms				48 h

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## Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.  
Test data are not available for the complete mixture.

## Aquatic toxicity (chronic) of components of the mixture

Name of substance	EC No	Endpoint	Value	Species	Method	Source	Exposure time
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	EL50	>1 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d

## 12.2 Persistence and degradability

### Degradability of components of the mixture

Name of substance	EC No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	oxygen depletion	31.3 %	28 d	OECD Guideline 301 F	ECHA
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	918-167-1	carbon dioxide generation	20.62 %	31 d	EPA OTS 796.3100	ECHA
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	oxygen depletion	89.8 %	28 d	OECD Guideline 301 F	ECHA
Hydrocarbons, C11-C13, Isoalkanes, < 2% aromates	920-901-0	carbon dioxide generation	20.62 %	31 d	EPA OTS 796.3100	ECHA
Hydrocarbons, C11-C14, Isoalkanes, Cycloalkanes, <2% Aromates	927-285-2	oxygen depletion	67.6 %	28 d	OECD Guideline 301 F	ECHA

### Biodegradation

No data available.

### Persistence

No data available.

## 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

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### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects

Data are not available.

#### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 3

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	-

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## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	Restriction
LEU Imprägnat F 10	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3
Hydrocarbons, C11-C12, Isoalkanes, < 2% aromates	flammable / pyrophoric		R40
diocetyl tin dilaurate	tin, organic compounds		R20

#### Legend

- R20
1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.
  2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:
    - (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;
    - (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;
    - (c) any totally or partly submerged appliance or equipment.
  3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.
  4. Tri-substituted organostannic compounds:
    - (a) Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.
    - (b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.
  5. Dibutyltin (DBT) compounds:
    - (a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.
    - (b) Articles and mixtures not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.
    - (c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:
      - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives,
      - paints and coatings containing DBT compounds as catalysts when applied on articles,
      - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC,
      - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications,
      - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades,
    - (d) By way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004.
  6. Dioctyltin (DOT) compound:
    - (a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent



## Legend

of 0,1 % by weight of tin:

- textile articles intended to come into contact with the skin,
- gloves,
- footwear or part of footwear intended to come into contact with the skin,
- wall and floor coverings,
- childcare articles,
- female hygiene products,
- nappies,
- two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).

(b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';

(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';

(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

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## Legend

- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
    - metallic glitter intended mainly for decoration,
    - artificial snow and frost,
    - 'whoopee' cushions,
    - silly string aerosols,
    - imitation excrement,
    - horns for parties,
    - decorative flakes and foams,
    - artificial cobwebs,
    - stink bombs.
  2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.
  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
  4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

## List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

## Seveso Directive

Not assigned.

## Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

## Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

## Water Framework Directive (WFD)

Not all ingredients are listed.

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
dioctyltin dilaurate	Organotin compounds		A)	
dioctyltin dilaurate	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	

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List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
dioctyltin dilaurate	Metals and their compounds		A)	

### Legend

A) Indicative list of the main pollutants

### Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.

### Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

### Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.  
Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.3	Details of the supplier of the safety data sheet: Uniter Chemie GmbH Ostring 16 D-44787 Bochum Germany  Telephone: ++49 (0) 234 - 18487 Telefax: ++49 (0) 234 - 67175 e-mail: info@uniter.com	Details of the supplier of the safety data sheet: Uniter Chemie GmbH Lötscher Weg 48 D-41334 Nettetal Germany  Telephone: ++49 (0) 2153 - 9789-0 Telefax: ++49 (0) 2153 - 9789-29 e-mail: info@uniter.com
3.2		Hazardous ingredients: change in the listing (table)
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components of the mixture: change in the listing (table)
15.1	Restrictions according to REACH, Annex XVII: none of the ingredients are listed	Restrictions according to REACH, Annex XVII

## LEU Imprägnat F 10

Section	Former entry (text/value)	Actual entry (text/value)
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)

### Abbreviations and acronyms

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008

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<b>Abbreviations and acronyms</b>	
<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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## List of relevant phrases (code and full text as stated in chapter 2 and 3)

List of relevant phrases (code and full text as stated in chapter 2 and 3)	
Code	Text
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### Responsible for the safety data sheet

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### Disclaimer

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.