

## SAFETY DATA SHEET

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## Safety Data Sheet for LEDAN TA3N

According to (EC) Nr. 1907/2006 (REACH)

First Print Date: 02-Feb-2020

Revision Date: 02-Feb-2020

Version: 0

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### Product identifier:

Identification as on the label/Trade name: LEDAN TA3N

#### Relevant identification uses of the substance and uses advised against:

**Identified uses:** LEDAN TA3N is an injection mortar for structural reinforcement.

**Uses advised against:** No other uses are advised.

#### Details of the supplier of the Safety Data Sheet:

Deffner & Johann GmbH  
Mühläckerstr. 13  
97520 Röthlein  
Germany

#### Contact details:

+49-(0)9723-9350-0 ( 8-15 CET time)

#### Emergency telephone numbers:

Contact closest poison centre

### Section 2: Hazards Identification

#### Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

#### **Hazard classes/Hazard categories:**

Skin Irritant (Category 2)

Eye Damage (Category 1)

#### **Hazard statement:**

H315

H318

#### Label elements:

##### **Hazard pictograms:**



**Signal Words:** Danger.

#### **Hazard Statements:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### **Precautionary Statements:**

##### **Prevention:**

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



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### Response:

P302 + P352 IF ON SKIN: Wash with plenty water.

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.

**Other hazards:** None known.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture:** Mixture

### Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	Classification EC1272/2008	
	EC-No.			
Lime (chemical), hydraulic	85117-09-5	20-40%	Skin Irrit. 2	H315
	285-561-1		Eye Dam. 1	H318
			STOT SE 3	H335

For explanation of abbreviations see Section 16.

## Section 4: First-Aid Measures

### Description of first aid measures:

**In case of inhalation:** Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**In case of skin contact:** If on skin, rinse well with water.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**In case of ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

None known.

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically. Show this safety data sheet to a physician or emergency room.

## Section 5: Fire-Fighting Measures

### Extinguisher media:

**Suitable extinguisher media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** High volume water jet.

**Special hazards arising from the mixture:** No information available.

**Advice for fire-fighters:** Wear Self-Contained Breathing Apparatus for firefighting if necessary.

**Further information:** Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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First Print Date: 02-Feb-2020

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### Section 6: Accidental Release Measures

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

**Personal precautions:** Use personal protective equipment. Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

#### Methods for containment and cleaning up:

**Methods for cleaning up:** Sweep up spillage and dispose. Flush area with water.

#### Reference to other sections:

Treat recovered material as described in the section "Disposal considerations".

### Section 7: Handling and Storage

#### Precautions for safe handling:

**Advice on safe handling:** Do not breathe dust. Avoid contact with skin and eyes.

**Hygiene measures:** Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including incompatibilities:

**Requirements for storage areas and containers:** Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

**Specific end uses:** Refer to Section 1.

### Section 8: Exposure Controls/Personal Protection

#### Control parameters:

**Occupational exposure limits:** Contains no substances with occupational exposure limit values.

#### Exposure controls:

**Appropriate engineering controls:** No data available.

#### Individual protection measures, such as personal protective equipment:

**Eye protection:** Chemical resistant goggles must be worn.

**Hand protection:** Protective gloves.

**Respiratory protection:** In case of dust clouds/fog/fumes, dust mask type P1.

**Body protection:** Protective suit.

### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Appearance (form):** Solid (powder).

**Colour:** White.

**Odour:** Odourless.

**Odour threshold:** No data available.

**pH (concentration):** No data available.



## Safety Data Sheet for LEDAN TA3N

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**Melting point/range (°C):** 825 °C

**Boiling point/range (°C):** No data available.

**Flash point (°C):** No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** Not classified as flammable.

**Ignition temperature (°C):** No data available.

**Upper/lower flammability/explosive limits:** No data available.

**Vapour pressure (20 °C):** No data available.

**Vapour density:** No data available.

**Water solubility (g/L) at 20 °C:** 16.6 mg/L

**n-Octanol/Water partition coefficient:** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity, dynamic (mPa s):** No data available.

**Explosive properties:** The substance or mixture is not classified as explosive.

**Oxidising properties:** The substance or mixture is not classified as oxidizing.

### Section 10: Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** May react violently in contact with acids.

**Conditions to avoid:** Elevated temperatures.

**Incompatible materials:** No data available.

**Hazardous decomposition products:** No decomposition if stored and applied as directed.

### Section 11: Toxicological Information

#### Information on toxicological effects:

Not classified based on available information.

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

##### **Skin corrosion/irritation:**

Causes skin irritation.

##### **Serious eye damage/eye irritation:**

Causes serious eye damage.

##### **Respiratory or skin sensitisation:**

Not classified based on available information.

##### **Germ cell mutagenicity:**

Not classified based on available information.

##### **Carcinogenicity:**

Not classified based on available information.

##### **Reproductive toxicity:**

Not classified based on available information.

##### **Specific target organ toxicity – single exposure (STOT):**

Not classified based on available information.



## Safety Data Sheet for LEDAN TA3N

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### Specific target organ toxicity (STOT) – repeated exposure:

Not classified based on available information.

### Aspiration toxicity:

Not classified based on available information.

## Section 12: Ecological Information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Results of PBT& vPvB assessment:** Not relevant.

**Other adverse effects:** No data available.

## Section 13: Disposal Considerations

**Waste treatment methods:** Dispose of in accordance with the European Directives on waste and hazardous waste.

**Product/packaging disposal:** Empty containers. Dispose of as unused product.

## Section 14: Transport Information

**UN Number:** Not regulated as a dangerous good.

**UN Proper Shipping Name:** Not regulated as a dangerous good.

**Transport Hazard Classes:** Not regulated as a dangerous good.

**Hazard labels:** Not regulated as a dangerous good.

**Packing group:** Not regulated as a dangerous good.

## Section 15: Regulatory Information

### EU regulations:

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**



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Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations:**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use:**

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use**

Not regulated.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.**

Not regulated.

**Other EU regulations:**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.**

Always applicable.

**Directive 94/33/EC on the protection of young people at work**

Not listed.

**Other regulations:** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations:** Follow national regulation for work with chemical agents.

**Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

## Section 16: Other Information

**List of abbreviations:**

Not available.

**Full text of any H-statements not written out in full under Sections 2 to 15:**

H315 Causes skin irritation.

H318 Causes serious eye damage.



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First Print Date: 02-Feb-2020

Revision Date: 02-Feb-2020

Version: 0

H335 May cause respiratory irritation.

**Revision information:**

None.

**Training information:**

Follow training instructions when handling this material.

**Further information:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.





## Safety Data Sheet for LEDAN D2

According to (EC) Nr. 1907/2006  
(REACH)

First Print Date: 02-Feb-2020  
Revision Date: 02-Feb-2020  
Version: 0

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### **Product identifier:**

Identification as on the label/Trade name: LEDAN D2

#### **Relevant identification uses of the substance and uses advised against:**

**Identified uses:** LEDAN D2 is an injection mortar for structural reinforcement.

**Uses advised against:** No other uses are advised.

#### **Details of the supplier of the Safety Data Sheet:**

Deffner & Johann GmbH  
Mühläckerstr. 13  
97520 Röthlein  
Germany

#### **Contact details:**

+49-(0)9723-9350-0 ( 8-15 CET time)

#### **Emergency telephone numbers:**

Contact closest poison centre

### Section 2: Hazards Identification

#### **Classification of the substances or mixture:**

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

#### **Hazard classes/Hazard categories:**

Skin Irritant (Category 2)  
Eye Damage (Category 1)

#### **Hazard statement:**

H315  
H318

#### **Label elements:**

##### **Hazard pictograms:**



**Signal Words:** Danger.

##### **Hazard Statements:**

H315 Causes skin irritation.  
H318 Causes serious eye damage.

##### **Precautionary Statements:**

##### **Prevention:**

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



## Safety Data Sheet for LEDAN D2

According to (EC) Nr. 1907/2006  
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Revision Date: 02-Feb-2020  
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### Response:

P302 + P352 IF ON SKIN: Wash with plenty water.

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.

**Other hazards:** None known.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture:** Mixture

### Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	Classification EC1272/2008	
	EC-No.			
Lime (chemical), hydraulic	85117-09-5	20-50%	Skin Irrit. 2	H315
	285-561-1		Eye Dam. 1	H318
			STOT SE 3	H335

For explanation of abbreviations see Section 16.

## Section 4: First-Aid Measures

### Description of first aid measures:

**In case of inhalation:** Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**In case of skin contact:** If on skin, rinse well with water.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**In case of ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

None known.

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically. Show this safety data sheet to a physician or emergency room.

## Section 5: Fire-Fighting Measures

### Extinguisher media:

**Suitable extinguisher media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** High volume water jet.

**Special hazards arising from the mixture:** No information available.

**Advice for fire-fighters:** Wear Self-Contained Breathing Apparatus for firefighting if necessary.



## Safety Data Sheet for LEDAN D2

According to (EC) Nr. 1907/2006  
(REACH)

First Print Date: 02-Feb-2020  
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**Further information:** Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Section 6: Accidental Release Measures

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

**Personal precautions:** Use personal protective equipment. Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

#### **Methods for containment and cleaning up:**

**Methods for cleaning up:** Sweep up spillage and dispose. Flush area with water.

#### **Reference to other sections:**

Treat recovered material as described in the section "Disposal considerations".

### Section 7: Handling and Storage

#### **Precautions for safe handling:**

**Advice on safe handling:** Do not breathe dust. Avoid contact with skin and eyes.

**Hygiene measures:** Do not eat, drink or smoke when using this product.

#### **Conditions for safe storage, including incompatibilities:**

**Requirements for storage areas and containers:** Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

**Specific end uses:** Refer to Section 1.

### Section 8: Exposure Controls/Personal Protection

#### **Control parameters:**

**Occupational exposure limits:** Contains no substances with occupational exposure limit values.

#### **Exposure controls:**

**Appropriate engineering controls:** No data available.

#### **Individual protection measures, such as personal protective equipment:**

**Eye protection:** Chemical resistant goggles must be worn.

**Hand protection:** Protective gloves.

**Respiratory protection:** In case of dust clouds/fog/fumes, dust mask type P1.

**Body protection:** Protective suit.



## Safety Data Sheet for LEDAN D2

According to (EC) Nr. 1907/2006  
(REACH)

First Print Date: 02-Feb-2020  
Revision Date: 02-Feb-2020  
Version: 0

### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Appearance (form):** Solid (powder).

**Colour:** White.

**Odour:** Odourless.

**Odour threshold:** No data available.

**pH (concentration):** No data available.

**Melting point/range (°C):** 825 °C

**Boiling point/range (°C):** No data available.

**Flash point (°C):** No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** Not classified as flammable.

**Ignition temperature (°C):** No data available.

**Upper/lower flammability/explosive limits:** No data available.

**Vapour pressure (20 °C):** No data available.

**Vapour density:** No data available.

**Water solubility (g/L) at 20 °C:** 16.6 mg/L

**n-Octanol/Water partition coefficient:** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity, dynamic (mPa s):** No data available.

**Explosive properties:** The substance or mixture is not classified as explosive.

**Oxidising properties:** The substance or mixture is not classified as oxidizing.

### Section 10: Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** May react violently in contact with acids.

**Conditions to avoid:** Elevated temperatures.

**Incompatible materials:** No data available.

**Hazardous decomposition products:** No decomposition if stored and applied as directed.

### Section 11: Toxicological Information

#### Information on toxicological effects:

Not classified based on available information.

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

##### **Skin corrosion/irritation:**

Causes skin irritation.

##### **Serious eye damage/eye irritation:**

Causes serious eye damage.

##### **Respiratory or skin sensitisation:**

Not classified based on available information.

##### **Germ cell mutagenicity:**



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Not classified based on available information.

### **Carcinogenicity:**

Not classified based on available information.

### **Reproductive toxicity:**

Not classified based on available information.

### **Specific target organ toxicity – single exposure (STOT):**

Not classified based on available information.

### **Specific target organ toxicity (STOT) – repeated exposure:**

Not classified based on available information.

### **Aspiration toxicity:**

Not classified based on available information.

## Section 12: Ecological Information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Results of PBT& vPvB assessment:** Not relevant.

**Other adverse effects:** No data available.

## Section 13: Disposal Considerations

**Waste treatment methods:** Dispose of in accordance with the European Directives on waste and hazardous waste.

**Product/packaging disposal:** Empty containers. Dispose of as unused product.

## Section 14: Transport Information

**UN Number:** Not regulated as a dangerous good.

**UN Proper Shipping Name:** Not regulated as a dangerous good.

**Transport Hazard Classes:** Not regulated as a dangerous good.

**Hazard labels:** Not regulated as a dangerous good.

**Packing group:** Not regulated as a dangerous good.

## Section 15: Regulatory Information

### EU regulations:

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**



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Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations:**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use:**

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use**

Not regulated.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.**

Not regulated.

**Other EU regulations:**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.**

Always applicable.

**Directive 94/33/EC on the protection of young people at work**

Not listed.

**Other regulations:** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations:** Follow national regulation for work with chemical agents.

**Chemical safety assessment:** No Chemical Safety Assessment has been carried out.



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LEDAN D2**

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## Section 16: Other Information

**List of abbreviations:**

Not available.

**Full text of any H-statements not written out in full under Sections 2 to 15:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

**Revision information:**

None.

**Training information:**

Follow training instructions when handling this material.

**Further information:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



## Safety Data Sheet for LEDAN D3

According to (EC) Nr. 1907/2006 (REACH)

First Print Date: 02-Feb-2020

Revision Date: 02-Feb-2020

Version: 0

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### Product identifier:

Identification as on the label/Trade name: LEDAN D3

#### Relevant identification uses of the substance and uses advised against:

**Identified uses:** LEDAN D3 is an injection mortar for structural reinforcement.

**Uses advised against:** No other uses are advised.

#### Details of the supplier of the Safety Data Sheet:

Deffner & Johann GmbH  
Mühläckerstr. 13  
97520 Röthlein  
Germany

#### Contact details:

+49-(0)9723-9350-0 ( 8-15 CET time)

#### Emergency telephone numbers:

Contact closest poison centre

### Section 2: Hazards Identification

#### Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

#### **Hazard classes/Hazard categories:**

Skin Irritant (Category 2)

Eye Damage (Category 1)

#### **Hazard statement:**

H315

H318

#### Label elements:

#### **Hazard pictograms:**



**Signal Words:** Danger.

#### **Hazard Statements:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### **Precautionary Statements:**

#### **Prevention:**

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





## Safety Data Sheet for LEDAN D3

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Revision Date: 02-Feb-2020

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### Response:

P302 + P352 IF ON SKIN: Wash with plenty water.

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.

**Other hazards:** None known.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture:** Mixture

### Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	Classification EC1272/2008	
	EC-No.			
Lime (chemical), hydraulic	85117-09-5	20-50%	Skin Irrit. 2	H315
	285-561-1		Eye Dam. 1	H318
			STOT SE 3	H335

For explanation of abbreviations see Section 16.

## Section 4: First-Aid Measures

### Description of first aid measures:

**In case of inhalation:** Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**In case of skin contact:** If on skin, rinse well with water.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**In case of ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

None known.

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically. Show this safety data sheet to a physician or emergency room.

## Section 5: Fire-Fighting Measures

### Extinguisher media:

**Suitable extinguisher media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** High volume water jet.

**Special hazards arising from the mixture:** No information available.

**Advice for fire-fighters:** Wear Self-Contained Breathing Apparatus for firefighting if necessary.

**Further information:** Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



## Safety Data Sheet for LEDAN D3

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### Section 6: Accidental Release Measures

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

**Personal precautions:** Use personal protective equipment. Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

#### Methods for containment and cleaning up:

**Methods for cleaning up:** Sweep up spillage and dispose. Flush area with water.

#### Reference to other sections:

Treat recovered material as described in the section "Disposal considerations".

### Section 7: Handling and Storage

#### Precautions for safe handling:

**Advice on safe handling:** Do not breathe dust. Avoid contact with skin and eyes.

**Hygiene measures:** Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including incompatibilities:

**Requirements for storage areas and containers:** Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

**Specific end uses:** Refer to Section 1.

### Section 8: Exposure Controls/Personal Protection

#### Control parameters:

**Occupational exposure limits:** Contains no substances with occupational exposure limit values.

#### Exposure controls:

**Appropriate engineering controls:** No data available.

#### Individual protection measures, such as personal protective equipment:

**Eye protection:** Chemical resistant goggles must be worn.

**Hand protection:** Protective gloves.

**Respiratory protection:** In case of dust clouds/fog/fumes, dust mask type P1.

**Body protection:** Protective suit.

### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Appearance (form):** Solid (powder).

**Colour:** White.

**Odour:** Odourless.

**Odour threshold:** No data available.

**pH (concentration):** No data available.



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**Melting point/range (°C):** 825 °C

**Boiling point/range (°C):** No data available.

**Flash point (°C):** No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** Not classified as flammable.

**Ignition temperature (°C):** No data available.

**Upper/lower flammability/explosive limits:** No data available.

**Vapour pressure (20 °C):** No data available.

**Vapour density:** No data available.

**Water solubility (g/L) at 20 °C:** 16.6 mg/L

**n-Octanol/Water partition coefficient:** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity, dynamic (mPa s):** No data available.

**Explosive properties:** The substance or mixture is not classified as explosive.

**Oxidising properties:** The substance or mixture is not classified as oxidizing.

### Section 10: Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** May react violently in contact with acids.

**Conditions to avoid:** Elevated temperatures.

**Incompatible materials:** No data available.

**Hazardous decomposition products:** No decomposition if stored and applied as directed.

### Section 11: Toxicological Information

#### Information on toxicological effects:

Not classified based on available information.

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

##### **Skin corrosion/irritation:**

Causes skin irritation.

##### **Serious eye damage/eye irritation:**

Causes serious eye damage.

##### **Respiratory or skin sensitisation:**

Not classified based on available information.

##### **Germ cell mutagenicity:**

Not classified based on available information.

##### **Carcinogenicity:**

Not classified based on available information.

##### **Reproductive toxicity:**

Not classified based on available information.

##### **Specific target organ toxicity – single exposure (STOT):**

Not classified based on available information.



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### Specific target organ toxicity (STOT) – repeated exposure:

Not classified based on available information.

### Aspiration toxicity:

Not classified based on available information.

## Section 12: Ecological Information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Results of PBT& vPvB assessment:** Not relevant.

**Other adverse effects:** No data available.

## Section 13: Disposal Considerations

**Waste treatment methods:** Dispose of in accordance with the European Directives on waste and hazardous waste.

**Product/packaging disposal:** Empty containers. Dispose of as unused product.

## Section 14: Transport Information

**UN Number:** Not regulated as a dangerous good.

**UN Proper Shipping Name:** Not regulated as a dangerous good.

**Transport Hazard Classes:** Not regulated as a dangerous good.

**Hazard labels:** Not regulated as a dangerous good.

**Packing group:** Not regulated as a dangerous good.

## Section 15: Regulatory Information

### EU regulations:

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**



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Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations:**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use:**

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use**

Not regulated.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.**

Not regulated.

**Other EU regulations:**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.**

Always applicable.

**Directive 94/33/EC on the protection of young people at work**

Not listed.

**Other regulations:** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations:** Follow national regulation for work with chemical agents.

**Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

## Section 16: Other Information

**List of abbreviations:**

Not available.

**Full text of any H-statements not written out in full under Sections 2 to 15:**

H315 Causes skin irritation.

H318 Causes serious eye damage.



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H335 May cause respiratory irritation.

**Revision information:**

None.

**Training information:**

Follow training instructions when handling this material.

**Further information:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.