

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

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

#### 1.1 Product identifier

Trade name : Dieselcure 330ml  
Product code : 0893 567 330

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

Use of the Sub-stance/Mixture : Additive  
Professional use product

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

Company : WÜRTH IRELAND LTD.  
Monaclinoe Ind. Est. Ballysimon  
Limerick  
  
Telephone : +353 61 430200  
  
Telefax : +353 61 412428  
  
E-mail address of person responsible for the SDS : prodsafe@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H361d Suspected of damaging the unborn child.
Precautionary statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

2-Butoxyethanol  
Diethylene glycol methyl ether

### 2.3 Other hazards

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Butoxyethanol	111-76-2 203-905-0 603-014-00-0	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 70 - < 90
Diethylene glycol methyl ether	111-77-3 203-906-6 603-107-00-6	Repr. 2; H361d	>= 10 - < 20

Substances with a workplace exposure limit :

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2		>= 10 - < 20
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

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

- Risks : Harmful if swallowed, in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of damaging the unborn child.

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

- Treatment : Treat symptomatically and supportively.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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### SECTION 6: Accidental release measures

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

Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.

#### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version	Revision Date:	SDS Number:	Date of last issue: 03.12.2018
4.0	07.03.2019	997283-00002	Date of first issue: 26.11.2012

---

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

Methods for cleaning up : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe vapours or spray mist.  
Do not swallow.  
Do not get in eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Advice on common storage : Do not store with the following product types:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

Strong oxidizing agents  
Explosives  
Gases

Recommended storage temperature : > -70 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		OELV - 8 hrs (TWA)	20 ppm 98 mg/m <sup>3</sup>	IE OEL
Further information	Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body, Indicative Occupational Exposure Limit Value			
		OELV - 15 min (STEL)	50 ppm 246 mg/m <sup>3</sup>	IE OEL
Further information	Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body, Indicative Occupational Exposure Limit Value			
Diethylene glycol methyl ether	111-77-3	TWA	10 ppm 50.1 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		OELV - 8 hrs (TWA)	10 ppm 50.1 mg/m <sup>3</sup>	IE OEL
Further information	Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used, Indicative Occupational Exposure Limit Value			
(2-Methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		OELV - 8 hrs (TWA)	50 ppm 308 mg/m <sup>3</sup>	IE OEL
Further information	Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version  
4.0

Revision Date:  
07.03.2019

SDS Number:  
997283-00002

Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

should be used, Indicative Occupational Exposure Limit Value

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value	
2-Butoxyethanol	Workers	Inhalation	Long-term systemic effects	98 mg/m <sup>3</sup>	
	Workers	Inhalation	Acute systemic effects	1091 mg/m <sup>3</sup>	
	Workers	Inhalation	Acute local effects	246 mg/m <sup>3</sup>	
	Workers	Skin contact	Long-term systemic effects	125 mg/kg bw/day	
	Workers	Skin contact	Acute systemic effects	89 mg/kg bw/day	
	Consumers	Inhalation	Long-term systemic effects	59 mg/m <sup>3</sup>	
	Consumers	Inhalation	Acute systemic effects	426 mg/m <sup>3</sup>	
	Consumers	Inhalation	Acute local effects	147 mg/m <sup>3</sup>	
	Consumers	Skin contact	Long-term systemic effects	75 mg/kg bw/day	
	Consumers	Skin contact	Acute systemic effects	89 mg/kg bw/day	
Diethylene glycol methyl ether	Consumers	Ingestion	Long-term systemic effects	6.3 mg/kg bw/day	
	Consumers	Ingestion	Acute systemic effects	26.7 mg/kg bw/day	
	Workers	Inhalation	Long-term systemic effects	50.1 mg/m <sup>3</sup>	
	Workers	Skin contact	Long-term systemic effects	0.53 mg/kg bw/day	
	Consumers	Inhalation	Long-term systemic effects	25 mg/m <sup>3</sup>	
	Consumers	Skin contact	Long-term systemic effects	0.27 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	1.5 mg/kg bw/day	
	(2-Methoxymethylethoxy)propanol	Workers	Inhalation	Long-term systemic effects	308 mg/m <sup>3</sup>
		Workers	Skin contact	Long-term systemic effects	238 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	37.2 mg/m <sup>3</sup>
Consumers		Skin contact	Long-term systemic effects	121 mg/kg bw/day	
Consumers		Ingestion	Long-term systemic effects	36 mg/kg bw/day	

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-Butoxyethanol	Fresh water	8.8 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

	Marine water	0.88 mg/l
	Freshwater - intermittent	26.4 mg/l
	Sewage treatment plant	463 mg/l
	Fresh water sediment	34.6 mg/kg dry weight (d.w.)
	Marine sediment	3.46 mg/kg dry weight (d.w.)
	Soil	2.33 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	20 mg/kg food
Diethylene glycol methyl ether	Fresh water	12 mg/l
	Marine water	1.2 mg/l
	Intermittent use/release	12 mg/l
	Sewage treatment plant	10000 mg/l
	Fresh water sediment	44.4 mg/kg
	Marine sediment	0.44 mg/kg
	Soil	2.44 mg/kg
(2-Methoxymethylethoxy)propanol	Fresh water	19 mg/l
	Freshwater - intermittent	190 mg/l
	Marine sediment	1.9 mg/l
	Sewage treatment plant	4168 mg/l
	Fresh water sediment	70.2 mg/kg dry weight (d.w.)
	Marine sediment	7.02 mg/kg dry weight (d.w.)
	Soil	2.74 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.  
Use with local exhaust ventilation.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety goggles  
Equipment should conform to I.S. EN 166

#### Hand protection

Material : Fluorinated rubber  
Break through time :  $\geq$  480 min  
Glove thickness : 0.4 mm

Material : butyl-rubber  
Break through time :  $\geq$  480 min  
Glove thickness : 0.5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the





# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Diesalcure 330ml

Version	Revision Date:	SDS Number:	Date of last issue: 03.12.2018
4.0	07.03.2019	997283-00002	Date of first issue: 26.11.2012

---

Relative vapour density	:	4.1
Density	:	0.9112 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	:	
Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	259 °C
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	2.266 mm <sup>2</sup> /s (40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Flammability (liquids)	:	No data available
Particle size	:	Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Combustible liquid. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Diesalcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

##### Acute toxicity

|| Harmful if swallowed, in contact with skin or if inhaled.

##### Product:

|| Acute oral toxicity : Acute toxicity estimate: 1,886 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 14.67 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,467 mg/kg  
Method: Calculation method

##### Components:

##### **2-Butoxyethanol:**

Acute oral toxicity : LD50 (Guinea pig): 1,414 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

##### **Diethylene glycol methyl ether:**

Acute oral toxicity : LD50 (Rat): 7,128 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 1.2 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 9,404 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

### **(2-Methoxymethylethoxy)propanol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity : LC0 (Rat): > 1.667 mg/l  
Exposure time: 7 h  
Test atmosphere: dust/mist  
Acute dermal toxicity : LD50 (Rabbit): 9,510 mg/kg

### **Skin corrosion/irritation**

|| Causes skin irritation.

#### **Components:**

##### **2-Butoxyethanol:**

Species : Rabbit  
Method : Directive 67/548/EEC, Annex V, B.4.  
Result : Skin irritation

##### **Diethylene glycol methyl ether:**

Species : Rabbit  
Result : No skin irritation

##### **(2-Methoxymethylethoxy)propanol:**

Species : Rabbit  
Result : No skin irritation

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

|| Causes serious eye irritation.

#### **Components:**

##### **2-Butoxyethanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

##### **Diethylene glycol methyl ether:**

Species : Rabbit  
Result : No eye irritation

##### **(2-Methoxymethylethoxy)propanol:**

Species : Rabbit  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

|| Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

### Respiratory sensitisation

|| Not classified based on available information.

#### Components:

##### 2-Butoxyethanol:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

##### Diethylene glycol methyl ether:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

##### (2-Methoxymethylethoxy)propanol:

Test Type : Human repeat insult patch test (HRIPT)  
Exposure routes : Skin contact  
Species : Humans  
Result : negative

### Germ cell mutagenicity

|| Not classified based on available information.

#### Components:

##### 2-Butoxyethanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: equivocal

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: Intraperitoneal injection  
Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Diesalcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### Diethylene glycol methyl ether:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

### (2-Methoxymethylethoxy)propanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: Saacharomyces cerevisiae, mitotic recombination  
assay (in vitro)  
Result: negative

### Carcinogenicity

|| Not classified based on available information.

#### Components:

##### 2-Butoxyethanol:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative

##### (2-Methoxymethylethoxy)propanol:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Method : OECD Test Guideline 453  
Result : negative  
Remarks : Based on data from similar materials

### Reproductive toxicity

|| Suspected of damaging the unborn child.

#### Components:

##### 2-Butoxyethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

Effects on foetal develop- : Test Type: Embryo-foetal development

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

ment

Species: Rat  
Application Route: Ingestion  
Result: negative

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### Diethylene glycol methyl ether:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: positive  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### (2-Methoxymethylethoxy)propanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### STOT - single exposure

|| Not classified based on available information.

### STOT - repeated exposure

|| Not classified based on available information.

### Repeated dose toxicity

### Components:

#### Diethylene glycol methyl ether:

Species : Rat  
NOAEL : 900 mg/kg  
Application Route : Ingestion

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

Exposure time : 6 Weeks

### (2-Methoxymethylethoxy)propanol:

Species : Rat  
NOAEL : 1.21 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 13 Weeks

Species : Rat  
NOAEL : 1,000 mg/kg  
Application Route : Ingestion  
Exposure time : 4 Weeks

Species : Rabbit  
NOAEL : 2,850 mg/kg  
Application Route : Skin contact  
Exposure time : 90 Days

### Aspiration toxicity

|| Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### 2-Butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,464 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,800 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,840 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 679 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Danio rerio (zebra fish)

Toxicity to daphnia and other aquatic invertebrates (Chronic) : EC10: 134 mg/l  
Exposure time: 21 d



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

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ic toxicity)      Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211

### Diethylene glycol methyl ether:

Toxicity to fish      : LC50 (*Pimephales promelas* (fathead minnow)): 5,741 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other      : EC50 (*Daphnia magna* (Water flea)): 1,192 mg/l  
aquatic invertebrates      Exposure time: 48 h

Toxicity to algae/aquatic      : EC50 (*Pseudokirchneriella subcapitata* (green algae)): >  
plants      1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms      : EC50 : > 1,000 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209

### (2-Methoxymethylethoxy)propanol:

Toxicity to fish      : LC50 (*Poecilia reticulata* (guppy)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other      : EC50 (*Daphnia magna* (Water flea)): 1,919 mg/l  
aquatic invertebrates      Exposure time: 48 h

Toxicity to algae/aquatic      : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 969  
plants      mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 969  
mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms      : EC50 (*Pseudomonas putida*): 4,168 mg/l  
Exposure time: 18 h

Toxicity to daphnia and other      : NOEC:  $\geq$  0.5 mg/l  
aquatic invertebrates (Chronic toxicity)      Exposure time: 22 d  
Species: *Daphnia magna* (Water flea)

## 12.2 Persistence and degradability

### Components:

#### 2-Butoxyethanol:

Biodegradability      : Result: Readily biodegradable.  
Biodegradation: 90.4 %  
Exposure time: 28 d

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

Method: OECD Test Guideline 301B

### Diethylene glycol methyl ether:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### (2-Methoxymethylethoxy)propanol:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 76 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

## 12.3 Bioaccumulative potential

### Components:

#### 2-Butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0.81

#### Diethylene glycol methyl ether:

Partition coefficient: n-octanol/water : log Pow: -0.47

#### (2-Methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: 0.004

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Diesalcure 330ml

Version	Revision Date:	SDS Number:	Date of last issue: 03.12.2018
4.0	07.03.2019	997283-00002	Date of first issue: 26.11.2012

---

Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

- used product  
20 01 29, detergents containing hazardous substances
- unused product  
20 01 29, detergents containing hazardous substances
- uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

---

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Diethylene glycol methyl ether  
(Number on list 54)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 99.99 %, 300.27 g/l  
Remarks: VOC content excluding water

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H361d : Suspected of damaging the unborn child.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Irrit. : Eye irritation  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0      Revision Date: 07.03.2019      SDS Number: 997283-00002      Date of last issue: 03.12.2018  
Date of first issue: 26.11.2012

2006/15/EC : list of indicative occupational exposure limit values  
IE OEL : Europe. Indicative occupational exposure limit values  
          : Ireland. List of Chemical Agents and Occupational Exposure  
          : Limit Values - Schedule 1  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
2006/15/EC / TWA : Limit Value - eight hours  
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)  
IE OEL / OELV - 15 min (STEL) : Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|| Acute Tox. 4      H302  
Acute Tox. 4      H332

### Classification procedure:

Calculation method  
Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Dieselcure 330ml

Version 4.0	Revision Date: 07.03.2019	SDS Number: 997283-00002	Date of last issue: 03.12.2018 Date of first issue: 26.11.2012
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Acute Tox. 4	H312	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361d	Calculation method

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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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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