



# ΣΕΤ ΚΑΘΑΡΙΣΜΟΥ INOX B570+B580

## MATERIAL SAFETY DATA SHEET Innosoft B570 according to Regulation (EC) No 1907/2006



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

#### 1.1. Product identifier

Product name: Innosoft B570 ®

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

Product use : Ready-to-use cleaner for stainless steel and other non-ferrous metals, for use according to the user instructions.

Use against which is recommended: This product must not be used for other applications than that which are recommend without seeking advice of the supplier.

Process categories (explanations see section 16):

- PROC 10

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

**Manufacturer/Supplier:** EMERGO Metal Treatment  
Twentepoort Oost 15  
7609 RG Almelo  
The Netherlands

Phone.: +31 (0)599 – 696 420

Fax.: +31 (0)599 – 696 425

E-mail: [info@emergometal.com](mailto:info@emergometal.com)

Web: [www.emergometal.com](http://www.emergometal.com)

#### 1.4. Emergency telephone number

Phone.: +31 (0)599 – 696 420

### SECTION 2: Hazards identification

#### 2.1. Classification of the mixture

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

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes serious eye damage.



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## 2.2. Label elements

### Hazardous components which must be listed on the label

Fatty alcohol polyethoxylate

Signal word: Danger

Pictogram: GHS05



### Hazard statements

H318 Causes serious eye damage

### Precautionary statements

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

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

P310 Immediately call a POISON CENTER/doctor.

## 2.3. Other hazards

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

## SECTION 3: Composition and information on ingredients

### 3.2 Mixtures

#### Hazardous components

EC No	Chemical name	Quantity
CAS No		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
307-055-2	sodium alkyl sulfonate	5 - < 10 %
97489-15-1		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318	
01-2119489924-20		
	fatty alcohol ethoxylate	1 - < 5 %
68439-46-3		
	Eye Dam. 1, Aquatic Chronic 3; H318 H412	
226-218-8	sulfamic acid, sulphamic acid, sulphamidic acid	1 - < 5 %
5329-14-6		
016-026-00-0	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H315 H319 H412	
01-2119488633-28		

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

### Labelling for contents according to Regulation (EC) No 648/2004

5 % - 15 % anionic surfactants, < 5 % non-ionic surfactants, perfumes (Limonene, Hexyl cinnamal, Butylphenyl methylpropional, Benzyl salicylate), preservation agents (Benzisothiazolinone, Methylisothiazolinone).



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## SECTION 4: First aid measures

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### 4.1. Description of first aid measures

**Inhalation:**

No inhalation exposure is to be expected if the product is used as intended.

**Skin contact:**

Wash affected areas with soap and water and rinse well.  
 Immediately take off all contaminated clothing.

**Eye contact:**

Rinse opened eyes several minutes under running water and call medical attention.

**Ingestion:**

Wash out mouth with water and drink plenty of water.  
 Do not induce vomiting, instantly call medical attention.

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

No information available.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

Suitable: water jet, alcohol-resistant foam, carbon dioxide, extinguishing powder.  
 Not suitable: Heavy jet of water.

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

Hazardous combustion products: carbon dioxide, carbon monoxide.

### 5.3. Advice for firefighters

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Avoid contact with eyes, skin and clothes.  
 Wear personal protection equipment (see section 8).

### 6.2. Environmental precautions:

Do not allow to enter into surface water or drains.  
 Do not allow to enter into soil/subsoil.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
 Treat the recovered material as prescribed in the section on waste disposal .

### 6.4. Reference to other sections

Personal protection equipment: see section 8  
 Disposal: see section 13



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**SECTIE 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

- Avoid contact with skin and eyes.
- Do not mix with other products.
- Wear personal protection equipment (see section 8).
- Do not eat, drink and smoke in work areas.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Advice on storage compatibility**

No special measures are necessary.

**7.3. Specific end uses**

**SECTIE 8: Exposure controls/personal protection**

**8.1. Control parameters**  
**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
97489-15-1	sodium alkyl sulfonate			
	Worker DNEL, long-term	dermal	systemic	5 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	35 mg/m <sup>3</sup>
	Worker DNEL, acute	dermal	local	2,8 mg/cm <sup>2</sup>
	Worker DNEL, long-term	dermal	local	2,8 mg/cm <sup>2</sup>
	Consumer DNEL, acute	dermal	local	2,8 mg/cm <sup>2</sup>
	Consumer DNEL, long-term	dermal	systemic	3,57 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	12,4 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	7,1 mg/kg bw/day
	Consumer DNEL, long-term	dermal	local	2,8 mg/cm <sup>2</sup>

**PNEC values**

CAS No	Substance	Value
97489-15-1	sodium alkyl sulfonate	
	Freshwater	0,04 mg/l
	Marine water	0,004 mg/l
	Freshwater sediment	9,4 mg/kg
	Marine sediment	0,94 mg/kg
	Soil	9,4 mg/kg
	Microorganisms in sewage treatment plants (STP)	600 mg/l
68439-46-3	fatty alcohol ethoxylate	



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## 8.2. Exposure controls

### Protective and hygiene measures

Take off contaminated clothing.  
 Wash hands before breaks and after work.  
 When using do not eat, drink or smoke.

### Eye/face protection

Wear eye/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Suitable material: NBR (Nitrile rubber). Breakthrough time (maximum wearing time) >480 min. A survey of suitable brands with detailed information on breakthrough times is available upon request.

### Skin protection

Wear suitable protective clothing.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid.
Colour:	White.
Odour:	Perfumes, fragrances.
pH-Value	2.8 – 3.4
<b>Changes in the physical state</b>	
Melting point:	ca. 0 °C
Initial boiling point and boiling range:	ca. 100 °C
Flash point:	Not applicable
<b>Flammability</b>	
Solid:	Not applicable
Gas:	Not applicable
Lower explosion limits:	Not applicable
Upper explosion limits:	Not applicable
<b>Auto-ignition temperature</b>	
Solid:	Not applicable
Gas:	Not applicable
Decomposition temperature:	Not determined
<b>Oxidizing properties</b>	
Not oxidizing.	
Vapour pressure:	Not determined
Density (at 25°C):	1.17 g/cm <sup>3</sup>
Water solubility:	partially soluble
<b>Solubility in other solvents</b>	
Not determined	
Partition coefficient:	Not determined
Viscosity/dynamic (at 25°C):	<1000 mPas



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Vapour density: Not determined  
 Evaporation rate: Not determined

**9.2. Other information**

Solid content: Not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

No hazardous incompatibilities known.

**10.6. Hazardous decomposition products**

No hazardous decomposition known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

CAS No	Chemical name				
	Exposures routes	Method	Dose	Species	Source
97489-15-1	Sodium alkyl sulfonate				
	Oral	LD50	>2000 mg/kg	Rat	OECD 401
	Dermal	LD50	>2000 mg/kg	Mouse	
	Inhalative aerosol	LC50	>5 mg/l	Rat	ATE
68439-46-3	Fatty alcohol ethoxylate				
	Oral	LD50	>2000 mg/kg	Rat	
	Dermal	LD50	>2000 mg/kg	Rabbit	
	Inhalative aerosol	LC50	>5 mg/l	Rat	ATE
5329-14-6	Sulfamic acid, sulphamic acid, sulphamidic acid				
	Oral	LD50	>2000 mg/kg	Rat	ATE
	Dermal	LD50	>2000 mg/kg	Rat	ATE
	Inhalative aerosol	LC50	>5 mg/l	rat	ATE



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## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
97489-15-1	Sodium alkyl sulfonate					
	Acute fish toxicity	LC50	1-10 mg/l	96 h	Brachydanio rerio (zebra-fish)	OECD 203
	Acute algae toxicity	ErC50	>61 mg/l	72 h	Scenedesmus subspicatus	OECS 201
	Acute crustacea toxicity	EC50	9,81 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
68439-46-3	Fatty alcohol ethoxylate					
	Acute fish toxicity	LC50	>1-10 mg/l	96 h	Cyprinus carpio (Common Carp)	OECD 203
	Acute algae toxicity	ErC50	>1-10 mg/l	72 h	Scenedesmus subspicatus	OECS 201
	Acute crustacea toxicity	EC50	>1-10 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Crustacea toxicity	NOEC	0,37 mg/l	21 h	Daphnia magna (Big water flea)	
	Acute bacteria toxicity	(140 mg/l)		0 h	Activated sludge	
5329-14-6	Sulfamic acid, sulphamic acid, sulphamidic acid					
	Acute fish toxicity	LC50	70,3 mg/l	96 h	Pimephales promelas (fathead minnow)	

### 12.2. Persistence and degradability

The surfactants contained in this product comply with the biodegradability criteria as laid down in regulation 648/2004/EC on detergents.

CAS No	Chemical name			
	Method	Value	D	Source
	Evaluation			
97489-15-1	Sodium alkyl sulfonate			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	78%	28	
	Readily biodegradable (according to OECD criteria).			
	OECD 301E/ EEC 92/69/V, C.4-B	89	28	
	Readily biodegradable (according to OECD criteria).			
	OECD 303/ EEC 92/69/V, C10	96.2	34	
	Readily biodegradable (according to OECD criteria).			
68439-46-3	Fatty alcohol ethoxylate			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	>60%	28	
	Readily biodegradable (according to OECD criteria).			

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

The product has not been tested.



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**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

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**13.1 Waste treatment methods**

**Advice on disposal**

Dispose of waste according to applicable legislation.  
 Delivery to an approved waste disposal company.

**Waste disposal number of waste from residues/unused products**

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors

Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Non-contaminated packages may be recycled.

**SECTIE 14: Transport information**

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**14.1 Land transport (ADR/RID)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.2 Inland waterways transport (ADN)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.3 Marine transport (IMDG)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.4 Air transport (ICAO)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.5 Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTIE 15: Regulatory information**

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

**EU regulatory information**

2010/75/EU (VOC): <30%

**Additional information**

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

**National regulatory information**

Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

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





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## SECTION 16: Other information

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### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road )

IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection.

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

H 302 Harmful if swallowed.

H 315 Causes skin irritation.

H 318 Causes serious eye damage.

H 319 Causes serious eye irritation.

H 412 Harmful to aquatic life with long lasting effects.

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safetydata sheet.)*



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

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### 1.1. Product identifier

Product name: Innoprotect B580 ®

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

Product use : Water-dilutable surface cleaner for use according to the user instructions.

Use against which is recommended: This product must not be used for other applications than that which are recommend without seeking advice of the supplier.

Process categories:

- PROC 8
- PROC 10
- PROC 11

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

**Manufacturer/Supplier:** EMERGO Metal Treatment  
 Twentepoort Oost 15  
 7609 RG Almelo  
 The Netherlands

Postbus 323  
 9500 AH Stadskanaal  
 The Netherlands

Phone.: +31 (0)599 – 696 420

Fax.: +31 (0)599 – 696 425

E-mail: [info@emergometal.com](mailto:info@emergometal.com)

Web: [www.emergometal.com](http://www.emergometal.com)

### 1.4. Emergency telephone number

Phone.: +31 (0)599 – 696 420

## SECTION 2: Hazards identification

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### 2.1. Classification of the mixture

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].  
 The product does not support combustion. It therefore needs not to be classified as flammable despite a flash point below 60 °C.

### 2.2. Label elements

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
 The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.



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### SECTION 3: Composition and information on ingredients

#### Hazardous components

EC no	Chemical name	Quantity
CAS no		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-578-6	Ethanol, ethyl alcohol	1-<5%
64-17-5		
603-002-00-5	Flam. Liq. 2, Eye Irrit. 2; H225 H319	
01-2119457610-43		
	Sodium laureth sulfate	1-<5%
68891-38-3		
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412	
01-2119488639-16		

The full text of H- and EUH-phrases: see section 16.

#### Labelling for contents according to Regulation (EC) No 648/2004

< 5 % polycarboxylates, < 5 % anionic surfactants, perfumes (Limonene, Butylphenyl methylpropional, Geraniol), preservation agents (Benzisothiazolinone, Methylisothiazolinone, Methylchloroisothiazolinone).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation:

Supply fresh air.

##### Skin contact:

Wash affected areas with soap and water and rinse well.  
 Take off all contaminated clothing and wash it before reuse.

##### Eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

##### Ingestion:

Wash out mouth with water and drink plenty of water.  
 Do not induce vomiting.

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

No information available.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Suitable: water jet, alcohol-resistant foam, carbon dioxide, extinguishing powder.

##### Unsuitable extinguishing media

Full water jet



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

Hazardous combustion products: carbon dioxide, carbon monoxide.

**5.3. Advice for firefighters**

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

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

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

Wear personal protection equipment (see chapter 8).  
 Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions:**

Do not allow to enter into surface water or drains.  
 Do not allow to enter into soil/subsoil.

**6.3. Methods and materials for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
 Treat the recovered material as prescribed in the section on waste disposal .

**6.4. Reference to other sections**

Personal protection equipment: see section 8  
 Disposal: see section 13

**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

**Advice on safe handling**

- 💧 Avoid contact with skin, eyes and clothes.
- 💧 Do not mix with other chemicals.
- 💧 Wear personal protection equipment (see chapter 8).
- 💧 When using do not eat, drink or smoke.
- 💧 Do not breathe gas/fumes/vapour/spray.
- 💧 Use only in well-ventilated areas.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Advice on storage compatibility**

No special measures are necessary.

**7.3. Specific end uses**



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## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15min)	WEL

### 8.2. Exposure controls

#### Protective and hygiene measures

Take off contaminated clothing.  
 Wash hands before breaks and after work.  
 When using do not eat, drink or smoke.

#### Eye/face protection

Eye protection: not required.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.  
 Suitable material: NBR (Nitrile rubber).  
 Breakthrough time (maximum wearing time) >480 min.  
 A survey of suitable brands with detailed information on breakthrough times is available upon request.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

If extensively sprayed or used with high pressure equipment: combination filter A1/P2.

## SECTION 9: Physical and chemical properties

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

Physical state: liquid  
 Colour: blue  
 Odour: Perfumes, fragrances

pH-Value (at 20°C)

6,0 – 7,0

#### Test method

#### Changes in the physical state

Melting point: ca. 0 °C  
 Initial boiling point and boiling range: ca. 100 °C  
 Flash point: 54 °C

#### Flammability

Solid: not applicable  
 Gas: not applicable

Lower explosion limits: not determined  
 Upper explosion limits: not determined



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**Auto-ignition temperature**

Solid: not applicable  
 Gas: not applicable  
 Decomposition temperature: not determined

**Oxidizing properties**

Not oxidizing.  
 Vapour pressure: not determined  
 Density (at 25 °C): 1,02 g/cm<sup>3</sup>  
 Water solubility: completely miscible

**Solubility in other solvents**

Not determined  
 Partition coefficient: not determined  
 Viscosity / dynamic(at 25 °C): <10 mPa·s  
 Vapour density: not determined  
 Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

The product is stable under storage at normal ambient temperatures.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.



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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64-17-5	Ethanol, ethyl alcohol				
	Oral	LD50	>2000 mg/kg	Rat	ATE
	Dermal	LD50	>2000 mg/kg	Rat	ATE
	Inhalative vapour	LC50	>20 mg/l	Rat	ATE
68891-38-3	Sodium laureth sulfate				
	Oral	LD50	>2000 mg/kg	Rat	
	Dermal	LD50	>2000 mg/kg	Rat	
	Inhalative aerosol	LC50	>5 mg/l	Rat	

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
64-17-5	Ethanol, ethyl alcohol					
	Acute fish toxicity	LC50	>1000 mg/l	96 h		
	Acute algae toxicity	ErC50	>100 mg/l			
	Acute crustacea toxicity	ErC50	>1000 mg/l	48 h		
68891-38-3	Sodium laureth sulfate					
	Acute fish toxicity	LC50	7,1 mg/l	96 h		OECD 203
	Acute algae toxicity	ErC50	27,7 mg/l	72 h		OECD 201
	Acute crustacea toxicity	ErC50	7,4 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Fish toxicity	NOEC	1 mg/l	45d		OECD 203
	Algae toxicity	NOEC	0,95 mg/l	3 d		OECD 201

### 12.2. Persistence and degradability

The surfactants contained in this product comply with the biodegradability criteria as laid down in regulation 648/2004/EC on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
64-17-5	Ethanol, ethyl alcohol			
	OECD 301	>60 %	28	
	Readily biodegradable (according to OECD criteria).			
68891-38-3	Sodium laureth sulfate			
	OECD 301	>60 %	28	
	Readily biodegradable (according to OECD criteria).			

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68891-38-3	Sodium laureth sulfate	0,95-3,90



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 according to REGULATION (EC) No 1907/2006



**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

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**13.1 Waste treatment methods**

**Advice on disposal**

Dispose of waste according to applicable legislation.  
 Delivery to an approved waste disposal company.

**Waste disposal number of waste from residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Waste disposal number of contaminated packaging**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging.

**Contaminated packaging**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information**

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**14.1 Land transport (ADR/RID)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.2 Inland waterways transport (ADN)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.3 Marine transport (IMDG)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.4 Air transport (ICAO)**

**UN number:** No dangerous good in sense of these transport regulations.

**14.5 Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTION 15: Regulatory information**

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**15.1. Safety, health and environmental regulations / legislation specific for the mixture**

**EU regulatory information**

2010/75/EU (VOC): <30%

**Additional information**

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





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**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road )  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection.

**Relevant H- and EUH-phrases (Number and full text)**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

## EMERGO Metal Treatment – General guidelines and instructions for use

### 1. General guidelines for safe use of EMERGO Metal Treatment products

- I. Use the product according to the directions on the label and the user instruction.
- II. Apply the product only on surfaces for which the product is intended, stainless steel and other metals.
- III. Keep Products always out of reach for children.
- IV. Do not swallow the products. In case of swallowing immediately consult a doctor and show packaging or label.
- V. Avoid contact with the eyes and skin. In case of contact of the product with the eye rinse immediately with excessive amount of water and obtain expert medical advice.
- VI. In order to avoid possible undesirable irritations we recommended wearing (watertight) gloves during cleaning.
- VII. Do not use the products in strong sunlight.

### 2. User instruction Innosoft B570 ®

- I. After intensive shaking of the Innosoft B570 packaging the cleaner needs to be applied undiluted with a damp sponge or pad. Let the product subsequently be absorbed briefly (around 1 minute) and start after that to move the sponge or pad with some pressure over the material (rubbing/polishing).
- II. The special sponge or pad needs to be moved in the rolling direction of the material or in the direction of the brushed or polished surface. If the oxidation is hard to remove one can also use the white (scrubbing) side of the sponge.
- III. One has to consider that the removed oxides may damage a surface slightly. That will be especially become apparent when the surface has been polished.
- IV. Remove the residues carefully with water or a damp cloth. The latter should be done while applying light pressure in order to prevent that dirt is rubbed into the pores again.
- V. Use by preference the base cleaner Innoprotect B580 that, in addition to neutralization, also leaves a nano layer behind in order to prevent new corrosion as much as possible.
- VI. Do not let Innosoft B570 ® get in contact with natural stone.

### 3. User instruction Innoprotect B580 ®

- I. Dilute with water for daily use 50ml on 1 liter of water.
- II. In case of use as after treatment or on a surface treated with Innosoft B570 use a 1 in 4 dilution.
- III. Apply Innoprotect B580 with a sponge or cloth.
- IV. For a dry result rinse afterwards.
- V. Always use cold water.

### 4. User instruction Innospray B600 ®

- I. For an optimal dry result, the Innospray B600 should be applied on a micro fiber cloth and then wipe off the surface evenly. Do not apply the Innospray B600 directly on the surface.
- II. Use Innospray B600 pure, it is a ready-to-use cleaner.
- III. Use Innospray B600 only on waterproof surfaces.
- IV. Do not use Innospray B600 on piano varnish and acrylic glass.

### 5. User instruction Innopolish B520 ®

- I. Use Innopolish B520 for the cleaning of polluted and dull surfaces.
- II. Apply Innopolish B520 on a damp cloth or sponge. Clean the surface and possibly rub afterwards with a dry cloth.
- III. Rub when desirable with a soft afterwards to create gloss.
- IV. Suitable for stainless steel, nickel, copper, bronze, chrome and aluminum.

