

Safety Data Sheet

Efadeck Cleaner 0601 16059

Replaces date: 09/12/2013

Revision date: 12/02/2016

Version: 2.0.0

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: Efadeck Cleaner 0601 16059**Article no**

Article no	Description
060116059	

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

Recommended uses: Degreasing agent**Inadvisable uses:** The product is recommended for only the above described uses.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Esbjerg Farve- & Lakfabrik A/S
Address: Energivej 13
Zip code: DK-6700
City: Esbjerg
Country: DENMARK
E-mail: info@esbjergpaints.dk
Phone: 0045 75 12 86 00
Fax: 0045 75 45 33 68
Homepage: www.esbjergpaints.dk

1.4. Emergency Telephone Number

GB: +44 1215074123 (Advice and guidance) (Around the clock)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Eye Irrit. 2;H319**Most serious harmful effects:** Causes serious eye irritation.

2.2. Label elements

Pictograms**Signal word:** Warning**Contains****Substance:** Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride; 2,2'-iminodiethanol**H-phrases**

H319 Causes serious eye irritation.

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P-phrases

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear eye protection/face protection.
P337+313	If eye irritation persists: Get medical advice/attention.
P264	Wash skin thoroughly after handling.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
(2-methoxymethyl ethoxy)propanol	34590-94-8	252-104-2	02-2119666108-35	2 - 5%		
Fatty alcohol ethoxylate (C9-C11)	68439-46-3			< 2.5%		Eye Irrit. 2;H319
Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride	1554325-20-0			< 2.5%		Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318
2,2'-iminodiethanol	111-42-2	203-868-0	01-2119488930-28	< 1%		Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT RE 2;H373

Please see section 16 for the full text of H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	If patient feels unwell move to fresh air and keep under surveillance. If breathing has stopped, apply artificial respiration. Call for medical attention or ambulance.
Ingestion:	Give large quantities of milk or water to drink. DO NOT INDUCE VOMITING! If vomiting occurs, hold head low to prevent aspiration of liquid into lungs. Call for medical attention/ambulance.
Skin contact:	Remove contaminated clothing immediately. Wash the skin thoroughly with water and continue washing for a long time. Clothing/footwear must be cleaned before use again.
Eye contact:	Flush immediately with lukewarm water (preferably using eye wash equipment) for at least 15 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
Burns:	Product is non-flammable.
General:	If in doubt, seek medical advice. Also see para. 1 In case of accident: Seek medical advice. Show the label or this safety datasheet, if possible.

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

Burns to eyes and skin.

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

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Non-flammable material.

Unsuitable extinguishing media: Non-flammable material.

Extinguishing methods: Non-flammable material.

5.2. Special hazards arising from the substance or mixture

Slippery ground.

5.3. Advice for fire-fighters

Breathing apparatus should be used in fire fighting. Full protective clothing must be worn.

Other Information: Collect contaminated water from extinguishing fire. The water must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: See protection measures in item 7 and 8. Not relevant.

For emergency responders: If there is a risk of contact with the product wear rubbergloves and a protective suit.

6.2. Environmental precautions

Stop the flow if it can be done without risk. Keep people away and warn of slippery ground. Cover drains. Minimize contamination of groundwater. If lakes, waterways or drains become contaminated, inform the environmental authorities.

6.3. Methods and material for containment and cleaning up

Prevent major quantities of spillage from being discharged into the sewage system or water by banking the spillage with sand or the like and collecting it. Recover with absorbent material. Clean preferably with cleansing agents. Avoid using solvents.

6.4. Reference to other sections

Also see item 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Personal protective equipment: Refer to section 8. Avoid contact with eyes and skin. Washing and flushing facilities must be available.

7.2. Conditions for safe storage, including any incompatibilities

Keep the material away from oxidizing agents and strong acidic and alkaline substances. The product must be kept away from children. Store in a tightly closed container and in accordance with the current regulations in a dry and well-ventilated place away from food.

7.3. Specific end use(s)

Applications is mentioned in item 1.2.

Other Information: Personal protective equipment: Refer to section 8.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	fiber/cm3	Comments	Remarks
(2-methoxymethylethoxy)propanol	8h	50	308			Sk
(2-methoxymethylethoxy)propanol	15m					Sk

Sk = Can be absorbed through skin

Legal basis:

EH40/2005 Workplace exposure limits incl. supplement from October 2007.

PNEC

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater - sediment	70,2 mg/kg			
Freshwater	19 mg/l			
Marine water	1,9 mg/l			
Soil	2,74 mg/kg			
Marine water - sediment	7,02 mg/kg			
Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,10379 mg/l			
Marine water	0,10379 mg/l			
Soil	1 mg/kg			

DNEL - workers

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	283 mg/kg	Long-term exposure		Systemic effects	
Inhalation	308 mg/m3	Long-term exposure		Systemic effects	
Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	2080 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	294 mg/m3	Long-term exposure		Systemic effects	

DNEL - general population

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral	36 ng/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	37,2 mg/m3	Long-term exposure		Systemic effects	
Dermal	121 mg/kg bw/day	Long-term exposure		Systemic effects	
Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral	25 mg/kg bw/day	Long-term exposure		Systemic effects	

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Dermal	1250 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	87 mg/m ³	Long-term exposure		Systemic effects	

Biological threshold values: See above.

Other Information: See above.

8.2. Exposure controls

Appropriate engineering controls: All work must be planned with a view to limit the breathing of fumes and the exposure to the skin.

Personal protective equipment, eye/face protection: Wear safety goggles/face protection.

Personal protective equipment, skin protection: Always use protective clothing.

Personal protective equipment, hand protection: Use nitrile rubber or neoprene protective gloves. Follow the glove manufacturer's recommendations on use and replacement.

Personal protective equipment, respiratory protection: With insufficient ventilation use respirator with filter type P2.

Other Information: Washing and flushing facilities must be available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid.
Colour	Clear
Odour	Characteristic odour.
Solubility	Miscible with water.
Explosive properties	None
Oxidising properties	None

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	10 - 11	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	> 62 °C	
Evaporation rate	No data	
Flammability (solid, gas)		
Flammability limits		
Explosion limits		
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

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Parameter	Value/unit	Remarks
Density	1.03 g/ml	
Fire class	III-2	
Weight % organic solvents	2,5	
VOC (G/liter)	26 g/l	

Other Information: Solubility in water: Soluble in water. Fat solubility: irrelevant

SECTION 10: Stability and reactivity

10.1. Reactivity

No information is available.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known by normal use and normal conditions.

10.4. Conditions to avoid

Strong sunlight.

10.5. Incompatible materials

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances. Reacts violently with water, acids and metals such as aluminum, magnesium, zinc, forming hydrogen and oxygen. The substance is aggressive to the aluminum, tin, lead and zinc and produces hydrogen, which together with air can form explosive mixtures.

10.6. Hazardous decomposition products

No information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5130 mg/kg bw			

Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5050mg/kg bw/day			

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		300 - 2000mg/kg			

Harmful if swallowed.

Acute toxicity - dermal

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 5000mg/kg bw			

Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg bw/day			

Dries out the skin with consequent irritation.

Acute toxicity - inhalation

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	7 h	> 275mg/l			

Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	> 1.6mg/l			

Not relevant.

Skin corrosion/irritation: Prolonged or repeated skin contact will decrease skin and may cause irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory sensitisation or skin sensitisation: No known hazards.

Germ cell mutagenicity: Would not be expected germ cell mutagen

Carcinogenic properties: Not expected to cause cancer.

Reproductive toxicity: Would not be expected to be a reproductive toxicant.

Single STOT exposure: No known hazards.

Repeated STOT exposure: No known hazards.

Aspiration hazard: No known hazards.

SECTION 12: Ecological information

12.1. Toxicity

(2-methoxymethylethoxy)propanol, cas-no 34590-94-8

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute Daphnia	Daphnia magna	48 h	EC50	1919 mg/l			
Acute algae	Pseudokirchneriella subcapitata	72 h	EC50	> 969mg/l			
Acute fish	Pimephales promelas	96 h	LC50	> 10000mg/l			

Fatty alcohol ethoxylate (C9-C11), cas-no 68439-46-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Onchorhynchus mykiss	96 h	LC50	1 - 10mg/l			
Acute Daphnia	Daphnia magna	48 h	EC50	1 - 10mg/l			
Acute algae	Skeletonema costatum	72 h	EC50	1 - 10mg/l			

Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish		96 h	LC50	10 - 100mg/l			
Acute daphnia		48 h	EC50	1 - 10mg/l			
Acute algae		72 h	EC50	1 - 10mg/l			

2,2'-iminodiethanol, cas-no 111-42-2

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Pimephales promelas	96 h	LC50	1460mg/l			
Acute Daphnia	Daphnia magna	48 h	LC50	55mg/l			
Acute algae	Pseudokirchneriella subcapitata	96 h	EC50	2.2mg/l			

No information available

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

The product is miscible with water and will spread in water systems.

12.5. Results of PBT and vPvB assessment

This product is not a substance which is a PBT or vPBT.

12.6. Other adverse effects

May be harmful to aquatic organisms due to pH change.

Other Information

Do not dispose of this product in drains, watercourses, or on the ground.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

Waste must be disposed of in accordance with local environmental control regulations. Provide good chemical hygiene.

Category of waste: EAK-Code : 20 01 15

SECTION 14: Transport information

14.1. UN-No.: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

Irrelevant.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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Irrelevant.

SECTION 15: Regulatory information

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

Special Provisions:

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on
detergents: Contains: Less than 5% non-ionic surfactant. Less than 5% cationic surfactant.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	02/03/2020	GK	2, 3, 9, 11, 13, 15, 16
1.0.0	03/05/2016	GK	

Abbreviations: DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration.**References to literature and data sources:** REACH: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. CLP: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.**Other Information:** The information in this Material Safety Data Sheet is based upon our knowledge and on European Union legislation. The user's working conditions are outside our control. It is the responsibility of the users to fulfil the requirements set by National Legislation. The information is no guarantee of the properties of the product.**Training advice:** The instructions in this Material Safety Data Sheet are given on the assumption that the product is used as stated in item 1. Restrictions of use and special training requirements must also be complied with. The information in this Material Safety Data Sheet should be regarded as a description of the safety issues concerning the product.

List of relevant H-statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Document language: GB