



Safety Data Sheet according to (EC) No 1907/2006

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MCF800 Cleaner

sds no. : 175159

V004.1

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1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

MCF800 Cleaner

Relevant identified uses of the substance or mixture and uses advised against:

Intended use:

Cleaner

Details of the supplier of the safety data sheet:

Henkel Limited

2 Bishop Square Business Park

AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933

Fax-no.: +44 1606 863762

ua-productsafety.uk@uk.henkel.com

Emergency telephone number:

24 Hours Emergency Tel: +44 (0)1442 278497

2. Hazards identification

Classification of the substance or mixture:

Classification (DPD):

Xi - Irritant

R36 Irritating to eyes.

Label elements (DPD):

Xi - Irritant



Risk phrases:

R36 Irritating to eyes.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other hazards:

None if used properly.

3. Composition/information on ingredients**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
2-(2-Butoxyethoxy)ethanol 112-34-5	203-961-6	80- 100 %	Serious eye irritation 2 H319
(2-Methoxymethylethoxy)propanol 34590-94-8	252-104-2	5- 10 %	

Only dangerous ingredients for which a CLP classification is already available are displayed in this table.**For full text of the H - statements and other abbreviations see section 16 "Other information".****Substances without classification may have community workplace exposure limits available.****Declaration of ingredients according to DPD (EC) No 1999/45:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
2-(2-Butoxyethoxy)ethanol 112-34-5	203-961-6	80 - 100 %	Xi - Irritant; R36
1-(1-Methyl-2-propoxyethoxy)propan- 2-ol 29911-27-1	249-949-4	5 - 10 %	Xi - Irritant; R36
(2-Methoxymethylethoxy)propanol 34590-94-8	252-104-2	5 - 10 %	

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.**Substances without classification may have community workplace exposure limits available.****4. First aid measures****Description of first aid measures:****Inhalation:**

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Immediately wash skin thoroughly with soap and water.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Do not induce vomiting.

Seek medical advice.

Most important symptoms and effects, both acute and delayed:

EYE: Irritation, conjunctivitis.

Indication of any immediate medical attention and special treatment needed:

See section: Description of first aid measures

5. Firefighting measures**Extinguishing media:****Suitable extinguishing media:**

Carbon dioxide, foam, powder

Water

Special hazards arising from the substance or mixture:

Danger of decomposition if exposed to heat.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

See section 10.

Advice for firefighters:

Wear self-contained breathing apparatus.

In case of fire, keep containers cool with water spray.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment.

Environmental precautions:

Do not let product enter drains.

Methods and material for containment and cleaning up:

Wipe up using absorbent material

Keep in suitable and closed containers for disposal.

Reference to other sections:

See advice in chapter 8

7. Handling and storage**Precautions for safe handling:**

See advice in chapter 8

Do not spray onto flame or red-hot objects.

Conditions for safe storage, including any incompatibilities:

Store in sealed original container.

Keep away from heat and direct sunlight.

Specific end use(s):

Cleaner

8. Exposure controls/personal protection**Control parameters:**

Valid for

Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	10	67,5	Time Weighted Average (TWA):		EH40 WEL
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	15	101,2	Short Term Exposure Limit (STEL):		EH40 WEL
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	15	101,2	Short Term Exposure Limit (STEL):	Indicative	ECTLV
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	10	67,5	Time Weighted Average (TWA):	Indicative	ECTLV
(2-METHOXYMETHYLETHOXY)- PROPANOL 34590-94-8			Skin designation:	Can be absorbed through the skin.	ECTLV
(2-METHOXYMETHYLETHOXY) PROPANOL 34590-94-8			Skin designation:	Can be absorbed through the skin.	EH40 WEL
(2-METHOXYMETHYLETHOXY) PROPANOL 34590-94-8	50	308	Time Weighted Average (TWA):		EH40 WEL
(2-METHOXYMETHYLETHOXY)- PROPANOL 34590-94-8	50	308	Time Weighted Average (TWA):	Indicative	ECTLV

Exposure controls:

Engineering controls:

Ensure adequate ventilation, especially in confined areas.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Suitable respiratory protection:

Filter type: A

Hand protection:

The use of chemical resistant gloves such as Nitrile are recommended.

Eye protection:

Goggles which can be tightly sealed.

and/or

facial protection

Skin protection:

Protective clothing that covers arms and legs.

Advices to personal protection equipment:

Avoid eye contact.

Wash off any dirt that gets onto the skin with lots of soap and water, skin care.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

9. Physical and chemical properties**Information on basic physical and chemical properties:**

Appearance	clear colourless
Odor	characteristic
pH (20 °C (68 °F); Solvent: Water)	4 - 6
Initial boiling point	184,0 °C (363.2 °F)
Flash point	103 - 110 °C (217.4 - 230 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	< 0,1 mbar
Density (20 °C (68 °F))	0,94 - 0,96 g/cm3
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	of high solubility
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	225,0 °C (437 °F)
Explosive limits	
lower	0,85 %(V)
upper	24,6 %(V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	Heavier than air
Oxidising properties	No data available / Not applicable

Other information:

No data available / Not applicable

10. Stability and reactivity

Reactivity:

Reaction with strong oxidants.
Reaction with strong bases

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

See section reactivity

Conditions to avoid:

Danger of decomposition if exposed to heat.

Incompatible materials:

None if used properly.

Hazardous decomposition products:

Thermal decomposition can lead to release of irritating gases and vapors.
May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.
See section 5.

11. Toxicological information

General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Inhalative toxicity:

Inhalation of vapors in high concentration may cause irritation of respiratory system
Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Due to the low volatility of the product there are no hazards associated with inhalation under normal conditions of use

Skin irritation:

slightly irritating, does not require labeling.

Eye irritation:

Irritating to eyes.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	LD50 LD50	> 2.000 mg/kg 2.800 mg/kg	oral dermal		rat rabbit	EU Method B.1 (Acute Toxicity (Oral))
(2-Methoxymethylethoxy)propanol 34590-94-8	LD50	8.740 mg/kg	oral		rat	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	not irritating		rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	not irritating		rabbit	

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	not sensitising	Guinea pig maximisation test	guinea pig	

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	negative	bacterial reverse mutation assay (e.g. Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	bacterial reverse mutation assay (e.g. Ames test)	with and without		

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	NOAEL=2 - 6 ppm	inhalation	90 days	rat	
2-(2-Butoxyethoxy)ethanol 112-34-5	NOAEL=> 2000 mg/kg		13 weeks 6 hours/day, 5 days/week	rat	
2-(2-Butoxyethoxy)ethanol 112-34-5	NOAEL=< 50 mg/kg	oral: gavage	90 days 5 days/week	rat	
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL=> 50 mg/l	inhalation	2 weeks (9 exposures) 6 hours/day; 5 days/week	rabbit	

12. Ecological information**General ecological information:**

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

If used properly the product does not enter the drains.

Ecotoxicity:

Do not empty into drains / surface water / ground water.

Mobility:

No data available.

Persistence and Biodegradability:

Readily degradable.

Bioaccumulative potential:

Does not bioaccumulate.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	LC50	1.300 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50	3.300 mg/l	Daphnia	24 h	Daphnia magna	
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50	> 100 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1-(1-Methyl-2- propoxyethoxy)propan-2-ol 29911-27-1	LC50	841 mg/l	Fish		Poecilia reticulata	
1-(1-Methyl-2- propoxyethoxy)propan-2-ol 29911-27-1	EC50	> 1.000 mg/l	Daphnia		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
(2- Methoxymethylethoxy)propan ol 34590-94-8	LC50	> 1.000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	
(2- Methoxymethylethoxy)propan ol 34590-94-8	EC50	> 1.000 mg/l	Daphnia	24 h	Daphnia magna	

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	readily biodegradable	aerobic	94 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
1-(1-Methyl-2- propoxyethoxy)propan-2-ol 29911-27-1	readily biodegradable	aerobic	91 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
(2- Methoxymethylethoxy)propan ol 34590-94-8	readily biodegradable	aerobic	75 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-(2-Butoxyethoxy)ethanol 112-34-5	0,56					

13. Disposal considerations**Waste treatment methods:**

Product disposal:

Waste incineration with the approval of the responsible local authority.

Disposal of uncleaned packages:

Collection and delivery to recycling enterprise or other registered elimination institution.

Use packages for recycling only when totally empty.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Recommended cleaning agents

Water, if necessary with added cleaning agent.

Waste code

14 06 03 - other solvents and solvent mixtures

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

14. Transport information

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

15. Regulatory information

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

VOC content 5 %
(1999/13/EC)

National regulations/information (Great Britain):

Remarks

The Health & Safety at Work Act 1974.
The Control of Substances Hazardous to Health Regulations. L5:General
Approved Code of Practice to the COSHH Regulations. HS(G)97:A Step by Step
Guide to the COSHH Regulations. HS(G)193: COSHH essentials: Easy steps to
control chemicals.
Chemicals (Hazard Information & Packaging for Supply) Regulations.

16. Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

R36 Irritating to eyes.

H319 Causes serious eye irritation.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.