Heliowash Ink Remover

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 12/4/2012 Revision date: 7/1/2018 Supersedes: 3/23/2016 Version: 1.3

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

1.1. Product identifier

Product form : Mixture

Product name : Heliowash Ink Remover

Product code : 1124900

Type of product : Mixture

Product group : Cleaning product.

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MDC Max Daetwyler GmbH
Daimlerstraße 3
64347 Griesham - Duitsland
T +49615587130 - F +49615564210
info@daetwylergmbh.de - www.daetwylergmbh.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1A	H314

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07

Signal word (CLP) : Danger

Hazardous ingredients : Potassium hydroxide; 2-butoxyethanol; Tetrasodiumethylenediamine tetraacetate

Hazard statements (CLP) : H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P234 - Keep only in original container.
P264 - Wash hands thoroughly after handling.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (REACH-no) 01-2119487136-33	5 – 15	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	5 – 15	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Tetrasodiumethylenediamine tetraacetate	(CAS-No.) 64-02-8 (EC-No.) 200-573-9 (EC Index-No.) 607-428-00-2 (REACH-no) 01-2119486762-27	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Take to hospital.

First-aid measures after skin contact : Take off contaminated clothing. Rinse skin with water/shower. Transport to hospital immediately.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse with plenty of water. Get immediate medical advice and attention.

First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Transport to hospital immediately.

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

Symptoms/effects after inhalation : Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.

Symptoms/effects after skin contact : Pungent. Severe burns. Redness. Pain.

Symptoms/effects after eye contact : Pungent. Pain. Redness. Blurred vision.

Symptoms/effects after ingestion : Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, powder, foam, CO2.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known.

Explosion hazard : None known.

5.3. Advice for firefighters

Precautionary measures fire : No special precautions required.

Firefighting instructions : No specific firefighting instructions required.

Protection during firefighting : No specific measures are necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not touch spilled material. Do not breathe vapour. Do not breathe spray. Remove contaminated clothing and shoes.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb the product onto porous material.

6.4. Reference to other sections

See Headings 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle carefully. Avoid spillage.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed and in well ventilated place. Keep out of frost.

Storage area : Keep container tightly closed and in well ventilated place. Keep out of frost.

Packaging materials : Suitable packing materials Plastic. Packing material to avoid Metal.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Heliowash Ink Remover		
	Limit value (mg/m³)	Here follows a summary list of the hazardous components mentioned in paragraph 3, of which the TLV value is known: 98 mg/m³ 2-butoxyethanol 2 mg/m³ Potassium hydroxide

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Hand protection:

Nitrile rubber gloves (EN374). Breakthrough time: > 480 Min. Layer thickness : 0,35 mm. Always wash hands after handling the product

Eye protection:

Safety glasses. Face-shield

Skin and body protection:

Impermeable clothing

Respiratory protection:

Ensure adequate air ventilation. In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Mask	ABEK		

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear.
Colour	:	Colourless.
Odour	:	Characteristic.
Odour threshold	:	No data available
pH	:	14 @ 20 °C
pH solution	:	/.
Relative evaporation rate (butylacetate=1)	:	0.3
Melting point	:	0 °C
Freezing point	:	No data available
Boiling point	:	100 – 173 °C
Flash point	:	/.
Auto-ignition temperature	:	/.
Decomposition temperature	:	No data available.
Flammability (solid, gas)	:	Not applicable.
Vapour pressure	:	2332 Pa @ 20 °C
Relative vapour density at 20 °C	:	Not applicable.
Relative density	:	No data available
Density	:	1.151 kg/l @ 20 °C
Relative gas density	:	Not applicable.
Solubility	:	completely soluble.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	1 mm²/s @ 20 °C
Viscosity, dynamic	:	1 mPa·s @ 20 °C
Explosive properties	:	Not applicable.
Oxidising properties	:	Not applicable.
Explosive limits	:	1.13 – 10.6
Lower explosive limit (LEL)	:	1.13 vol %
Upper explosive limit (UEL)	:	10.6 vol %

9.2. Other information

VOC content : 10.36 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Extremely high or low temperatures.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 ℃.

10.5. Incompatible materials

Keep away from (strong) acids.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

ATE CLP (oral)	1576.415 mg/kg bodyweight

Potassium hydroxide (1310-58-3)	
LD50 oral rat	356 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 inhalation rat (mg/l)	≥ 50 mg/l/4h

2-butoxyethanol (111-76-2)	
LD50 oral rat	300 – 2000 mg/kg
LD50 dermal rabbit	1000 – 2000 mg/kg
LC50 inhalation rat (mg/l)	2.1 – 20 mg/l/4h

Tetrasodiumethylenediamine tetraacetate (64-02-8)	
LD50 oral rat	500 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 inhalation rat (mg/l)	10 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: 14 @ 20 °C

Serious eye damage/irritation : Assumed to cause serious eye damage
pH: 14 @ 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Heliowash Ink Remover	
Viscosity, kinematic	1 mm²/s @ 20 °C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

2-butoxyethanol (111-76-2)	
LC50 fish 1	1474 mg/l (Oncorhynchus mykiss, 96h)
EC50 Daphnia 1	1550 mg/l (Daphnia, 48h)
EC50 72h algae (1)	> 100 mg/l
NOEC chronic fish	> 100 mg/l Danio rerio
NOEC chronic crustacea	> 100 mg/l (Daphnia, 72h)
NOEC chronic algae	> 280 mg/l (72h)

Tetrasodiumethylenediamine tetraacetate (64-02-8)	
LC50 fish 1	121 mg/l
EC50 Daphnia 1	625 mg/l (24h)

12.2. Persistence and degradability

Heliowash Ink Remover	
Persistence and degradability	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Heliowash Ink Remover	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Heliowash Ink Remover	
Ecology - soil	WGK 3. Completely soluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Comply with local regulations for disposal.
Waste treatment methods : Do not discharge into drains.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : 1719

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Caustic alkali liquid, n.o.s.
Transport document description (ADR) : UN 1719 Caustic alkali liquid, n.o.s. (mixture with potassium hydroxide), 8, II, (E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8

:

14.4. Packing group

Packing group (ADR) : II

14.5. Environmental hazards

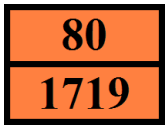
Dangerous for the environment : No
Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : Risk of burns, Do not allow to enter drains or water courses, Prevent flow to low areas

- Overland transport

Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 10.36 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
9.1			
11			
16			

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

Met. Corr. 1	H290
Acute Tox. 4 (Oral)	H302
Skin Corr. 1A	H314

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

<Ontbrekende vertaling : />

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.