



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml
Print date: 04.09.2014
Page 1 of 9

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

1.1. Product identifier
Edelstahlpflege H1 PL-A046 500ml


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

1.3. Details of the supplier of the safety data sheet

Company name: Winkel GmbH
Street: Liszstraße 1
Place: 53881 Euskirchen Germany
Telephone: + 49 2251 / 7769400
e-mail: www.winkelgroup.de
Internet:
1.4. Emergency telephone
number: + 49 2251 / 7769400

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable
R phrases:
Extremely flammable.
GHS classification
Hazard categories:
Aerosol: Aerosol 1
Hazard Statements:
Extremely flammable aerosol.
Extremely flammable aerosol.
Pressurised container: May burst if heated.
2.2. Label elements
Signal word: Danger
Pictograms: 
GHS02

Hazard statements
H222
H229
Extremely flammable aerosol.
Pressurised container: May burst if heated.

Precautionary statements
P210
P211
P251
P410+P412
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 2 of 9

Hazardous components

EC No	Chemical name	Quantity
	CAS No	
	Classification	
	Index No	
	REACH No	
279-632-6	Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates	0.1 - < 1 %
80939-62-4	Xi - Irritant, N - Dangerous for the environment R36/38-51-53	
	Skin Irrit 2, Eye Irrit 2, Aquatic Chronic 2, H315 H319 H411	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
 Never give anything by mouth to an unconscious person or a person with cramps. Remove persons to safety.

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

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

After ingestion

Rinse mouth immediately and drink plenty of water.

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

Headache, nausea, dizziness, fatigue, skin irritation

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
 Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion.

Revision No. 1.00

GB - EN

Revision date: 31.07.2014

Winkel GmbH
 Lisztstraße 1 • 53881 Euskirchen
 Tel: +49 2251 - 77 69 400 / 401
 Fax +49 2251 - 77 69 402



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 3 of 9

6.3. Methods and material 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

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Material, oxygen-rich, oxidizing. Pyrophoric or self-heating substances.

Further information on storage conditions

Protect from frost. Protect against direct sunlight.

7.3. Specific end uses

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
8042-47-5	White mineral oil	5	5		TWA (8 h)	TWA
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Additional advice on limit values

a no restriction

b End of exposure or shift

c in long-term exposure: after several shifts

d prior to next shift

TWA (EC): time-weighted average

U: Urea

8.2. Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or

WINKEL GmbH

Lisztstraße 1 • 53881 Euskirchen
Tel: +49 2251 - 77 69 400/401
Fax +49 2251 - 77 69 402

Revision date: 31.07.2014

Revision No: 1.00



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 4 of 9

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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..
Filtering device with filter or ventilator filtering device of type: AX
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic
pH-Value (at 20 °C):	not determined
Test method	DIN 19268
Changes in the physical state	Melting point: Initial boiling point and boiling range: Sublimation point: Softening point:
	Not information available. No information available. No information available.
Flash point:	-80 °C
Flammability	Solid: Gas: Lower explosion limits: Upper explosion limits:
	not applicable not applicable 1 vol. % 11 vol. %
Auto-ignition temperature	Ignition temperature: Solid: Gas:
	not applicable not applicable not determined
Oxidizing properties	Not oxidizing.
Vapour pressure:	not determined



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Page 5 of 9

Print date: 04.09.2014

No information available.

Vapour pressure:

0,862 g/cm³ DIN 51757

Density (at 20 °C):

No information available.

Bulk density:

insoluble

Water solubility:

Solubility in other solvents

not determined

Partition coefficient:

not determined

Viscosity / dynamic:

No information available.

Viscosity / kinematic:

70 mm²/s

Flow time:

No information available.

Vapour density:

not determined

Evaporation rate:

not determined

Solvent separation test:

No information available.

Solvent content:

No information available.

9.2. Other information

Solid content:

not determined

density: Data apply to technical substance.
pressure: 5 bar (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable, Ignition hazard.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO₂, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

Winkel GmbH
Iszstraße 1 • 53881 Euskirchen
Tel: +49 2251 - 77 89 400 / 401
Fax +49 2251 - 77 69 402



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 6 of 9

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
80939-62-4	Amines, C11-14-branched alkyl, monoethyl and dihexyl phosphates	oral	LD50	>5000 mg/kg	Rat	
		dermal	LD50	>2000 mg/kg	Rat	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

CAS No	Chemical name	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
80939-62-4	Amines, C11-14-branched alkyl, monoethyl and dihexyl phosphates	Acute fish toxicity	LC50	>5,8 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
		Acute algae toxicity	ERC50	10 mg/l	72 h	Selenastrum capricornutum	
		Acute crustacea toxicity	EC50	>1 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and PVB assessment

The product has not been tested.

Winkel GmbH

Industriegebiet • 53884 Euskirchen

Tel: +49 2251 - 77 69 400 / 401

Fax +49 2251 - 77 69 402



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 7 of 9

12.6. Other adverse effects

No information available.

Further information

No special environmental measures are necessary.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances

Classified as hazardous waste.

Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.1

Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Transport category:

2

Tunnel restriction code:

D

Other applicable information (land transport)

Limited quantity: E0

Inland waterways transport (ADN)

14.1. UN number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.1

Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Winkel GmbH
Lisztstraße 1 • 53881 Euskirchen
Tel: +49 2251 - 77 69 400 / 401
Fax +49 2251 / 77 69 402



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 8 of 9

Other applicable information (inland waterways transport)

Limited quantity: E0

Marine transport (IMDG)

14.1. UN number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1

Marine pollutant:

no

Special Provisions:

63, 190, 277, 327, 344, 959

Limited quantity:

1000 mL
F-D, S-U

Other applicable information (marine transport)

Limited quantity: E0

Air transport (ICAO)

14.1. UN number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS, flammable

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1

Special Provisions:

A145 A167 A802

Limited quantity Passenger:

30 kg G

ATA-packing instructions - Passenger:

203

ATA-max. quantity - Passenger:

75 kg

ATA-packing instructions - Cargo:

203

ATA-max. quantity - Cargo:

150 kg

Other applicable information (air transport)

Limited quantity: E0

Passenger-LQ: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Flammable gases.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC):

No information available.

Additional information

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

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D):

1 - slightly water contaminating



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Edelstahlpflege H1 PL-A046 500ml

Print date: 04.09.2014

Page 9 of 9

15.2. Chemical safety assessment

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

SECTION 16: Other information

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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL/MEL: Derived No Effect Level / Derived Minimal Effect Level
WEL (UK): Workplace Exposure Limits
TWA (EC): Time-Weighted Average
ATE: Acute Toxicity Estimate
STEL (EC) Short Term Exposure Limit
LC50: Lethal Concentration
EC50: half maximal Effective Concentration
ERC50: means EC50 in terms of reduction of growth rate

Relevant R-phrases (Number and full text)

36/38 Irritating to eyes and skin.
51 Toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.

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

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic 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.

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

Revision No. 1.00

GB-EN

Revision date: 31.07.2014

Winkel GmbH

Lisztstraße 1 • 83881 Euskirchen
Tel: +49 2251 - 77 69 400 / 401
Fax +49 2251 - 77 69 402