



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture Master STAGES™ CLEAN 2017
Registration number -
Synonyms None.
Issue date 27-March-2020
Version number 01

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

Identified uses Spray cleaners
Uses advised against Applicable for industrial settings only. No other uses are advised.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Master Fluid Solutions WDG GmbH
Address Hasselsstrasse 6-14
40597 Düsseldorf, Germany
Telephone +49 211 77 92 85-0
e-mail info-eu@masterfluidsolutions.com

Manufacturer

Company name Master Fluid Solutions
Address 501 West Boundary
Perrysburg, Ohio 43551
United States
Telephone +49 211 77 92 85-0
e-mail info-eu@masterfluidsolutions.com

1.4. Emergency telephone number +49 696 43 50 8409 (0800-181-7059 toll free)

Information on operation hours 24 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 1	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: POTASSIUM HYDROXIDE

Hazard pictograms



Signal word Danger

Hazard statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H314	Causes severe skin burns and eye damage.

Precautionary statements

Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P264	Wash hands thoroughly after handling.

Response

P303 + P361 + P353	IF ON SKIN (or hair): Remove/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.
P304 + P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P363	Wash contaminated clothing before reuse.

Storage

P405	Store locked up.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
POTASSIUM HYDROXIDE	10 - < 20	1310-58-3 215-181-3	01-2119487136-33-	019-002-00-8	
Classification:	Acute Tox. 4;H302, Skin Corr. 1A;H314, Eye Dam. 1;H318				
POTASSIUM PHOSPHATE	3 - < 5	7320-34-5 230-785-7	01-2119489369-18-	-	
Classification:	Eye Irrit. 2;H319				
Alcohol Ethoxylate	1 - < 3	68603-25-8	Not available	-	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
AMINE NEUTRALIZED CARBOXYLIC ACIDS	1 - < 3	Mixture -	Exempt-Ionic mixture, Annex V	-	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
Other components below reportable levels	80 - < 90				

List of abbreviations and symbols that may be used above

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: First aid measures

General information Get medical attention, if needed.

4.1. Description of first aid measures

Inhalation	Move to fresh air.
Skin contact	Wash affected area with mild soap and water.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed Harmful if swallowed. Causes serious eye damage. Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

5.1. Extinguishing media

Suitable extinguishing media Dry chemical, CO₂, water spray or alcohol resistant foam. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear suitable protective equipment. Use standard firefighting procedures and consider the hazards of other involved materials.

Special fire fighting procedures Containers should be cooled with water to prevent vapour pressure build up.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. For personal protection, see section 8. Use personal protective equipment as required.

For emergency responders Use personal protective equipment as required.

6.2. Environmental precautions

Prevent entry into waterways, sewer, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Clean up in accordance with all applicable regulations.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not taste or swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in a closed container. The product is stable and non-reactive under normal conditions of use, storage and transport. Store in a dry place.

7.3. Specific end use(s)

Spray cleaners

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
POTASSIUM HYDROXIDE (CAS 1310-58-3)	MAK	2 mg/m ³	Inhalable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

General information

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles). (e.g. EN 166).

Skin protection

- Hand protection

Nitrile gloves are recommended. Select suitable chemical resistant protective gloves (EN 374) with a protective index 5 (>240 min permeation time). Gloves with shorter breakthrough times may be acceptable providing that a regime of regular glove maintenance/replacement is established and managed.

- Other

Wear appropriate chemical resistant clothing.

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Light yellow
Odour	Mild, detergent
Odour threshold	Not available.
pH	13,5 - 14
Melting point/freezing point	4 °C (39,2 °F)
Initial boiling point and boiling range	102 °C (215,6 °F)
Flash point	> 100,0 °C (> 212,0 °F)
Evaporation rate	< 1 BuAc
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Flash point class	ASTM D92-90
pH in aqueous solution	12,5 - 13
Specific gravity	1,078 - 1,192

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Stable at normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.
10.5. Incompatible materials	Avoid contact with acids and oxidising substances.
10.6. Hazardous decomposition products	To avoid thermal decomposition, do not overheat.

SECTION 11: Toxicological information

General information	Causes severe skin burns and eye damage. Harmful if swallowed. Causes serious eye damage.
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Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes severe skin burns and eye damage.
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed.
Symptoms	Causes serious eye damage. Harmful if swallowed. Causes severe skin burns and eye damage.

11.1. Information on toxicological effects

Acute toxicity	Not classified. Harmful if swallowed.
Skin corrosion/irritation	Corrosive to skin and eyes.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitisation	Not classified.
Skin sensitisation	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Not available.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Follow precautions for safe handling described in this safety data sheet.
EU waste code	12 03 01 Aqueous washing liquids
Disposal methods/information	Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-

Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	No.
EmS	Not available.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated as dangerous goods.



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or H-statements under Sections 2 to 15

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Revision information

Composition / Information on Ingredients: Ingredients

Toxicological Information: Toxicological Data

Ecological Information: Ecotoxicity

Transport Information: Material Transportation Information

HazReg Data: North America

GHS: Classification

Training information

Not available.

Disclaimer

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