

## **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Revision Date 06-Sep-2019

**Revision Number 4** 

EGHS / English

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Name MasterPrep

**Product Code(s)** 40-6377-032, 40-6377-064, 63-6377-006

(M)SDS Number 1341370\_E

**Chemical name** 

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

**Recommended Use** Laboratory Use Only.

**Uses advised against** No information available.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer ITW Test & Measurement GmbH

Manufacturer Address Boschstraße 10

73734 Esslingen am Neckar / GERMANY

www.buehler-met.de www.buehler.fr www.buehler.co.uk

**Phone number** +49 (0) 711 4904690-0

E-mail Address lab.eu@buehler.com

#### 1.4. Emergency telephone number

Global Access Code: 334545 Americas: +1 760 476 3962

Middle East/Africa: +1 760 476 3959

UK: +44 8 08 189 0979

Europe: +1 760 476 3961

Asia Pacific: +1 760 476 3960

## **Section 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

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#### Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)

#### 2.2. Label elements



## Signal word Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

## Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Chemical name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Water	-	7732-18-5	70 - 90%	No data available	No data available
Aluminum oxide	215-691-6	1344-28-1	10 - 35%	No data available	No data available
Potassium hydroxide	215-181-3	1310-58-3	0 - 0.5%	Acute Tox. 4 (H302) Skin Corr. 1A (H314)	No data available

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC)

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#### No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Water	7732-18-5	-
Aluminum oxide	1344-28-1	•
Potassium hydroxide	1310-58-3	-

## **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get

medical attention if irritation develops and persists.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and

easy to do. Continue rinsing. Get medical attention if irritation develops and

persists. Do not rub affected area.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything

by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see

section 8).

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

**Symptoms** Burning sensation.

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

**Note to physicians** Treat symptomatically.

#### **Section 5: FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

#### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.



## **Section 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use

personal protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

#### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid

contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Take off contaminated clothing and wash before reuse.

General Hygiene Considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when

using this product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

**Risk Management Methods** 

(RMM)

The information required is contained in this Material Safety Data Sheet.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

#### **Exposure Limits**

Chemical name	EU	United Kingdom	France	Spain	Germany
Aluminum oxide	-	STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-
1344-28-1		STEL: 12 mg/m <sup>3</sup>	_		
		TWA: 10 mg/m <sup>3</sup>			
		TWA: 4 mg/m <sup>3</sup>			



Potassium hydroxide 1310-58-3	-	STEL: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Aluminum oxide 1344-28-1	-	TWA: 10 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Potassium hydroxide 1310-58-3	-	Ceiling: 2 mg/m <sup>3</sup>	-	STEL: 2 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Aluminum oxide 1344-28-1	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	STEL: 24 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup> TWA: 1.2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
Potassium hydroxide 1310-58-3	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

#### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields. None

required for consumer use.

**Hand Protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Environmental exposure** 

controls

No information available.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

Physical state Slurry
Appearance White
Odor Odorless

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

**pH** Alkaline

Melting / freezing point No data available None known

Boiling point / boiling range 100 °C

Flash PointNo data availableNone knownEvaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known



Relative density 1.12

Water Solubility

Dispersible

Solubility(ies) No data available None known Partition coefficient: n-octanol/water No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Viscosity** No data available None known

#### 9.2. Other information

Softening Point
Molecular Weight
VOC Content (%)
Liquid Density
Bulk Density
Particle Size
Particle Size
No information available

## **Section 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

No data available.

## 10.2. Chemical stability

Stable under normal conditions.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### 10.3. Possibility of hazardous reactions

**Possibility of Hazardous** 

Reactions

None under normal processing.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

None under normal use conditions.

## **Section 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

## Information on likely routes of exposure

#### **Product Information**



**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation

of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes.

(based on components). May cause redness, itching, and pain. Causes serious

eye irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin

irritation. (based on components). Prolonged contact may cause redness and

irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may

cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Information on toxicological effects

**Symptoms** Redness. May cause redness and tearing of the eyes.

#### **Numerical measures of toxicity**

#### **Acute Toxicity**

#### Unknown acute toxicity

20 % of the mixture consists of ingredient(s) of unknown toxicity

20 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

20 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Aluminum oxide	> 5000 mg/kg ( Rat )	-	-
Potassium hydroxide	= 284 mg/kg ( Rat )	-	-

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye

irritation

Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitization No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.



**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Potassium hydroxide	-	96h LC50: = 80 mg/L (Gambusia affinis)	-	-

## 12.2. Persistence and degradability

Persistence and Degradability No information available.

## 12.3. Bioaccumulative potential

#### **Bioaccumulation**

Chemical name	Log Pow
Potassium hydroxide	0.65
	0.83

## 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

	<del></del>
Chemical name	PBT and vPvB assessment
Aluminum oxide	The substance is not PBT / vPvB PBT assessment does
	not apply
Potassium hydroxide	The substance is not PBT / vPvB PBT assessment does
	not apply

#### 12.6. Other adverse effects

Other adverse effects No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods



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Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

No information available. Contaminated packaging

## **Section 14: TRANSPORT INFORMATION**

IMDG/IMO	NOT REGULATED
14.1 UN-No.	Not Regulated
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None

No information available 14.7 Transport in bulk

according to Annex II of MARPOL and the IBC Code

RID	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing Group	NOT REGULATED
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

<b>ADR</b>		NOT REGULATED
14.1	UN-No.	NOT REGULATED
14.2	Proper Shipping Name	NOT REGULATED
14.3	Hazard Class	NOT REGULATED
14.4	Packing Group	NOT REGULATED
14.5	Environmental hazard	Not applicable
1/16	Special Provisions	None

14.6 Special Provisions None

<u>IATA</u>	NOT REGULATED
14.1 UN-No.	NOT REGULATED
14.2 Proper Shipping Name	NON REGULATED
14.3 Hazard Class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental hazard	Not applicable

14.6 Special Provisions None

## **Section 15: REGULATORY INFORMATION**

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

Water hazard class (WGK) slightly hazardous to water (WGK 1)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .



#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### **Persistent Organic Pollutants**

Not applicable.

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

#### **International Inventories**

Contact supplier for inventory compliance status. **TSCA DSL/NDSL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AICS** 

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

No information available.

#### **Section 16: OTHER INFORMATION**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

Legend

SVHC: Substances of Very High Concern for Authorization:

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation



#### Key literature references and sources for data

www.ChemADVISOR.com/

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

#### **Disclaimer**

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**End of Safety Data Sheet** 

