

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

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

1.1. Product identifier

Trade name/designation:

UNIVERSAL CLEANER

UFI:

CRQH-N2YN-UFD9-D783

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

No data available

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

TPH Bausysteme GmbH

Nordportbogen 8
22848 Norderstedt
Germany

Telephone: +49 40 52 90 66 78-0

Telefax: +49 40 52 90 66 78-78

E-mail: info@tph-bausysteme.com

Website: www.tph-bausysteme.com

E-mail (competent person): sdb-info@tph-bausysteme.com

1.4. Emergency telephone number

24h: GIZ-Nord +49 551 / 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	On basis of test data.
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	Calculation method.
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (ears)	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2

TPH.
waterproofing systems

UNIVERSAL CLEANER

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:

xylene; 4-methylpentan-2-one; ethylbenzene

Hazard statements for physical hazards

H226	Flammable liquid and vapour.
------	------------------------------

hazard statements for health hazards

H304	May be fatal if swallowed and enters airways.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure. (ears)

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
------	--

Supplemental hazard information: -

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/-.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use sand, earth, extinguishing powder or foam to extinguish.

2.3. Other hazards

No data available

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1330-20-7 EC No.: 215-535-7 REACH No.: 01-2119488216-32-XXXX	xylene Acute Tox. 4, Flam. Liq. 3, Skin Irrit. 2 Warning H226-H312-H315-H332	50 - 100 weight-%
CAS No.: 108-65-6 EC No.: 203-603-9 REACH No.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate Flam. Liq. 3 Warning H226	> 15 - < 25 weight-%
CAS No.: 108-10-1 EC No.: 203-550-1 REACH No.: 01-2119473980-30-XXXX	4-methylpentan-2-one Acute Tox. 4, Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H332-H335-EUH066	> 10 - < 20 weight-%
CAS No.: 100-41-4 EC No.: 202-849-4	ethylbenzene Acute Tox. 4, Asp. Tox. 1, Flam. Liq. 2, STOT RE 2 Danger H225-H304-H332-H373	≥ 5 - < 15 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention. Get medical advice/attention if you feel unwell.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist.

Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment. Avoid contact with skin, eyes and clothes. No direct artificial respiration to be given by first aider.

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

Pneumonia Pulmonary oedema Skin corrosion/irritation Serious eye damage/eye irritation Irritation to respiratory tract

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

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:

Extinguishing powder Carbon dioxide (CO₂) alcohol resistant foam

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

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

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Solvents/Thinner

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class: 3 - Flammable liquids

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
BE	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (peut être absorbé par la peau)
CZ	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 45.4 ppm (200 mg/m ³) ② 90.8 ppm (400 mg/m ³) ⑤ (může pronikat pokožkou)
NO	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 25 ppm (108 mg/m ³) ⑤ (kan absorberes gjennom huden)
IE	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
HTP (FI)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m ³) ② 100 ppm (440 mg/m ³) ⑤ (kan absorberas genom huden)
LT	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³)
NPEL (SK)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (rátajte so vstrebávaním cez pokožku)
MAK (AT)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	② 100 ppm (442 mg/m ³) ⑤ (max. 4x15 min./Schicht)
DK	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 25 ppm (109 mg/m ³) ② 50 ppm (218 mg/m ³) ⑤ (kan optages gennem huden)
RO	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (e de asteptat asimilarea prin piele)
ES	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (puede ser absorbido a través dérmica), (VLB)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
EE	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (200 mg/m ³) ② 100 ppm (450 mg/m ³) ⑤ (naha kaudu kergesti absorbeeruvad ained)
LV	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (var absorbet caur adu)
Alberta (CA)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m ³) ② 150 ppm (651 mg/m ³)
BC (CA)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm ② 150 ppm
IOELV (EU)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
VLA (FR)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (peut être absorbé par la peau)
ACGIH (US)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m ³) ② 150 ppm (651 mg/m ³)
OSHA (US)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m ³)
SI	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo)
WEL (GB)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m ³) ② 100 ppm (441 mg/m ³) ⑤ (may be absorbed through the skin)
TW	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m ³)
KR	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m ³) ② 150 ppm (655 mg/m ³)
IS	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 25 ppm (109 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)
CH	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m ³) ② 200 ppm (870 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
CN	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 mg/m ³ ② 100 mg/m ³
MAK (AT)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
RU	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 mg/m ³ ③ 150 mg/m ³
HU	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 221 mg/m ³ ② 442 mg/m ³ ⑤ (felvehető a bőrn keresztül)
GR	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m ³) ② 150 ppm (650 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 210 mg/m ³ ② 442 mg/m ³ ⑤ (kan door de huid in het lichaam worden opgenomen)
JP	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (217 mg/m ³)
TR	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (cilt yoluyla alınabilir)
MY	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 199 ppm (434 mg/m ³)
SE	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (kan absorberas genom huden)
HR	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (mora se uzeti u obzir prodiranje kroz kožu)
BG	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (трябва да се очаква абсорбиране през кожата)
PL	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 mg/m ³ ② 200 mg/m ³ ⑤ (może przenikać przez skórę do organizmu)
Québec (CA)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (434 mg/m ³) ② 150 ppm (651 mg/m ³)
NIOSH (US)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 100 ppm (435 mg/m ³) ② 150 ppm (655 mg/m ³)
TRGS 900 (DE)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (220 mg/m ³) ② 100 ppm (440 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
VRC (FR)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (peut être absorbé par la peau)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
BE	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (peut être absorbé par la peau)
CZ	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 49.14 ppm (270 mg/m ³) ② 100.1 ppm (550 mg/m ³) ⑤ (může pronikat pokožkou)
TRGS 900 (DE)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (270 mg/m ³) ② 50 ppm (270 mg/m ³)
PL	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 260 mg/m ³ ② 520 mg/m ³ ⑤ (może przenikać przez skórę do organizmu)
NO	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (270 mg/m ³) ⑤ (kan absorberes gjennom huden)
IE	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (may be absorbed through the skin)
HTP (FI)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (270 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (kan absorberas genom huden)
DK	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (kan optages gennem huden)
LT	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (250 mg/m ³) ② 75 ppm (400 mg/m ³) ⑤ (tikėtinas įsisavinimas per odą)
SE	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (kan absorberas genom huden)
NPEL (SK)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (rátajte so vstrebávaním cez pokožku)
MAK (AT)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	② 100 ppm (550 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden)
BG	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (трябва да се очаква абсорбиране през кожата)
HR	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (mora se uzeti u obzir prodiranje kroz kožu)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ES	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (VLI)
RO	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (e de asteptat asimilarea prin piele)
EE	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (naha kaudu kergesti absorbeeruvad ained)
LV	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (var absorbet caur adu)
BC (CA)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm ② 75 ppm
IOELV (EU)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (may be absorbed through the skin)
Ontario (CA)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (270 mg/m ³)
MAK (AT)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
WEL (GB)	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (274 mg/m ³) ② 100 ppm (548 mg/m ³) ⑤ (may be absorbed through the skin)
SI	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo)
HU	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 275 mg/m ³ ② 550 mg/m ³
IS	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)
CH	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 50 ppm (275 mg/m ³)
RU	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	③ 10 mg/m ³

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
GR	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 550 mg/m ³
TR	2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (cilt yoluyla alınabilir)
CH	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (82 mg/m ³) ② 40 ppm (164 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
MAK (AT)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
BE	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
CZ	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 19.2 ppm (80 mg/m ³) ② 48 ppm (200 mg/m ³) ⑤ (může pronikat pokožkou)
PL	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 83 mg/m ³ ② 200 mg/m ³
TRGS 900 (DE)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 40 ppm (166 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
NO	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (kan absorberes gjennom huden)
IE	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (may be absorbed through the skin)
HTP (FI)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (80 mg/m ³) ② 50 ppm (210 mg/m ³)
LT	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤
DK	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 40 ppm (166 mg/m ³) ⑤ (kan optages gennem huden)
NPEL (SK)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (4-Metylpentán-2-ón izobutylmetylketón, hexón)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	② 50 ppm (208 mg/m ³) ⑤ (max. 4x15 min./Schicht, kann über die Haut aufgenommen werden)
BG	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (200 mg/m ³)
HR	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
ES	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
RO	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (4-Metilpentan-2-on)
EE	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
LV	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
Alberta (CA)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (205 mg/m ³) ② 75 ppm (307 mg/m ³)
MY	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (205 mg/m ³)
BC (CA)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm ② 75 ppm
IOELV (EU)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
VRC (FR)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
JP	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (200 mg/m ³)
WEL (GB)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (208 mg/m ³) ② 100 ppm (416 mg/m ³) ⑤ (may be absorbed through the skin)
SI	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo)
TW	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (205 mg/m ³)
KR	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (205 mg/m ³) ② 75 ppm (300 mg/m ³)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IS	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)
HU	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 83 mg/m ³ ② 208 mg/m ³
RU	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	③ 5 mg/m ³
NL	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 104 mg/m ³ ② 208 mg/m ³
GR	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 100 ppm (410 mg/m ³) ② 100 ppm (410 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
SE	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 25 ppm (100 mg/m ³) ② 50 ppm (200 mg/m ³)
TR	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
Québec (CA)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (205 mg/m ³) ② 75 ppm (307 mg/m ³)
OSHA (US)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 100 ppm (410 mg/m ³)
NIOSH (US)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (205 mg/m ³) ② 75 ppm (300 mg/m ³)
ACGIH (US)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (82 mg/m ³) ② 75 ppm (307 mg/m ³)
CH	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (220 mg/m ³) ② 50 ppm (220 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
BE	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (87 mg/m ³) ② 125 ppm (551 mg/m ³) ⑤ (peut être absorbé par la peau)
CZ	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 45.4 ppm (200 mg/m ³) ② 113.5 ppm (500 mg/m ³) ⑤ (může pronikat pokožkou)
PL	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 200 mg/m ³ ② 400 mg/m ³ ⑤ (może przenikać przez skórę do organizmu)
NO	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 5 ppm (20 mg/m ³) ⑤ (kan absorberes gjennom huden, Kreftframkallende)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (88 mg/m ³) ② 40 ppm (176 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IE	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin)
MY	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m ³)
HTP (FI)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (220 mg/m ³) ② 200 ppm (880 mg/m ³) ⑤ (kan absorberas genom huden)
SE	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (220 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (kan absorberas genom huden)
NPEL (SK)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (rátajte so vstrebávaním cez pokožku)
DK	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (217 mg/m ³) ② 100 ppm (434 mg/m ³) ⑤ (kan optages gennem huden)
LT	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (tikėtinas įsisavinimas per odą)
BG	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 435 mg/m ³ ② 545 mg/m ³ ⑤ (трябва да се очаква абсорбиране през кожата)
MAK (AT)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (440 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
HR	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (mora se uzeti u obzir prodiranje kroz kožu)
MAK (AT)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	② 200 ppm (880 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden)
VRC (FR)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (88.4 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (peut être absorbé par la peau)
ES	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (441 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (puede ser absorbido a través dérmica)
RO	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (e de așteptat asimilarea prin piele)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
EE	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (naha kaudu kergesti absorbeeruvad ained)
LV	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (var absorbet caur adu)
Alberta (CA)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m ³) ② 125 ppm (543 mg/m ³)
BC (CA)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm
IOELV (EU)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin)
JP	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (217 mg/m ³)
WEL (GB)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (441 mg/m ³) ② 125 ppm (552 mg/m ³) ⑤ (may be absorbed through the skin)
SI	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo)
TW	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m ³)
KR	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m ³) ② 125 ppm (545 mg/m ³)
IS	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 ppm (200 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)
CN	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 mg/m ³ ② 150 mg/m ³
HU	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 442 mg/m ³ ② 884 mg/m ³ ⑤ (felvehető a bőrön keresztül)
RU	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 50 mg/m ³ ③ 150 mg/m ³
GR	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m ³) ② 125 ppm (545 mg/m ³)
NL	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 215 mg/m ³ ② 430 mg/m ³ ⑤ (kan door de huid in het lichaam worden opgenomen)

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TR	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (cilt yoluyla alınabilir)
JP	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (87 mg/m ³) ⑤ (may be absorbed through the skin)
OSHA (US)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m ³)
NIOSH (US)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (435 mg/m ³) ② 125 ppm (545 mg/m ³)
ACGIH (US)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 20 ppm (87 mg/m ³)
Québec (CA)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (434 mg/m ³) ② 125 ppm (543 mg/m ³)
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m ³ ⑤ Mass fraction (wt %): 0

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
BAT (CH)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 g/g Creatinin	① Methylhippur-(Tolur)-säure ② Urin ③ bei Langzeitexposition, Expositionsende bzw. Schichtende
BAT (CH)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 mg/L	① Xylol ② Blut ③ Expositionsende bzw. Schichtende
VLB (ES)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1 g/g creatinina	① Ácidos metilhipúricos ② orina ③ fin de exposición o fin de turno
OEL-B (JP)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	800 mg/L	① total (o-,m-,p-) methylhippuric acid ② urine ③ at long term exposure, end of exposure or end of shift
BMGV (GB)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	650 mmol/mol creatinine	① methyl hippuric acid ② urine ③ end of exposure or end of shift
VLBO (RO)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	3 µg/L	① Acid metilhipuric ② urina ③ finalul expunerii, resp. finalul schimbului

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
BMH (SK)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 mg/L	① Xylén ② krv ③ koniec expozície, príp. koniec zmeny
BMH (SK)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	2,000 mg/L	① Suma kyselín 2,3,4-metylhippurových ② urín ③ koniec expozície, príp. koniec zmeny
BIO (FI)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	5 mmol/L	① Virtsan metylihippuurihappo ② urin ③ slutet på exponeringen eller slutet på skift et
ACGIH-BEI (US)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 g/g creatinine	① Methylhippuric acids ② urine ③ end of exposure or end of shift
BAT (SI)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	2 g/L	① metilhipurna kislin(vseizomere) ② urin ③ ob koncu delovne izmene
BIO (HU)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1,500 mg/g kreatinin	① Metil-hippursavak ② vizelet ③ expozíció vége illetve műszak vége
TRGS 903 (DE)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	2,000 mg/L	① Methylhippur-(Tolur-)säure (alle Isomere) ② Urin ③ Expositionsende bzw. Schichtende
BIO (HR)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 mg/L	① ksilen ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	1.5 g/g kreatinin	① metilhipurna kiselina ② urin ③ kraj izloženosti, odnosno kraj smjene
TRGS 903 (DE)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	0.7 mg/L	① 4-Methylpentan-2-on ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	2 mg/L	① 4-Methylpentan-2-on ② Urin ③ Expositionsende bzw. Schichtende
VLB (ES)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1 mg/l	① Metilisobutilcetona ② orina ③ fin de exposición o fin de turno
OEL-B (JP)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1.7 mg/L	① Methyl isobutylketone ② urine ③ end of exposure or end of shift
BMGV (GB)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	20 µmol/L	① 4-methylpentan - 2-one ② urine ③ end of exposure or end of shift

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
BMH (SK)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	3.5 mg/L	① Hexón ② urín ③ koniec expozície, príp. koniec zmeny
ACGIH-BEI (US)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1 mg/L	① MIBK ② urine ③ end of exposure or end of shift
BAT (SI)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	0.7 mg/L	① MIBK ② urin ③ ob koncu delovne izmene
BIO (HU)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	3.5 mg/L	① Metil-izo-butyl-keton ② vizelet ③ expozíció vége illetve műszak vége
BIO (HR)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	3.5 mg/L	① 4-Metilpentan-2-on ② urin ③ bez ograničenja
TRGS 903 (DE)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	250 mg/g Creatinin	① Mandelsäure + Phenylglyoxylsäure ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	800 mg/L	① Mandelsäure + Phenylglyoxylsäure ② Urin ③ Expositionsende bzw. Schichtende
VLB (ES)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	700 mg/g creatinina	① Ácido mandélico + ácido fenilgloxílico ② orina ③ en caso de exposición por largo tiempo, fin de exposición o fin de turno
BIO (HU)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1,500 mg/g kreatinin	① mandulasav ② vizelet ③ a munkahét utolsó műszakának a vége.
BIO (FI)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	5.2 mmol/L	① Mandelsyra ② urin ③ vid långtidsexponering, slutet på exponeringen eller slutet på skiftet
VLBO (RO)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.5 g/g creatinina	① acid mandelic ② urina ③ la expunerea de durata, finalul expunerii, resp. finalul schimbului
BMH (SK)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	12 mg/L	① 2 - a 4 -Etylfenol ② urín ③ pri dlhodobej expozícií, koniec expozície, príp. koniec zmeny
BMH (SK)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1,600 mg/L	① kyselina mandľová + Kyselina 2-fenyl-2-oxooctová ② urín ③ pri dlhodobej expozícií, koniec expozície, príp. koniec zmeny

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
ACGIH-BEI (US)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.15 g/g creatinine	① Sum of mandelic acid and phenylglyoxylic acid in urine ② urine ③ end of shift at end of workweek
BIO (HR)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.5 mg/L	① etilbenzen ② krv ③ za vrijeme izloženosti
BIO (HR)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.5 g/g kreatinin	① bademova kiselina ② urin ③ pri dugotrajnom izlaganju, kraj izloženosti, odnosno kraj smjene
BAT (SI)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	250 g/g kreatinina	① mandljeva kislina + fenilglioksilna kislina ② urin ③ ob koncu delovne izmene
BIO (BG)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	2,000 mg/g креатинин	① Бадемова киселина + фенилглиоксилна киселина ② урина ③ край на експозицията, респ. край на работната смяна

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection DIN EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min
In the case of wanting to use the gloves again, clean them before taking off and air them well.
Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Filtering device with filter or ventilator filtering device of type: AX

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: not determined

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	< -25 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	114 - 173 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	26 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	1 - 10.6 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.88 g/cm ³		EN ISO 2811-1	
Bulk density	<i>not determined</i>			
Water solubility	Immiscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance name	Toxicological information
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	LD₅₀ oral: >2,000 mg/kg (Rat)
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	LD₅₀ oral: 6,190 mg/kg (Rat)
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	LD₅₀ oral: 2,080 mg/kg (Rat) OECD 401

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Substance name	Toxicological information
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	LD₅₀ oral: 3,500 mg/kg (Rat) LD₅₀ dermal: 15,354 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 17.2 mg/l 4 h (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

Harmful in contact with skin.

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information:

No data available

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	LC₅₀ : 2.6 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203 EC₅₀ : 2.2 mg/l 3 d (Algae/water plant, Pseudokirchnerie lla subcapitata) OECD 201 IC₅₀ : 1 mg/l (Daphnia magna (Big water flea)) OECD 202 24h IC₅₀ : 96 mg/l (Activated sludge) OECD 209 24h
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	LC₅₀ : 130 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) LC₅₀ : 408 mg/l 2 d (Daphnia magna (Big water flea))
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	LC₅₀ : >179 mg/l 4 d (fish, Danio rerio (zebrafish)) OECD 203 EC₅₀ : >200 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 NOEC : >146 mg/l (Algae/water plant, Lemna gibba (swollen duckweed)) 7d
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	LC₅₀ : 4.2 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203 EC₅₀ : 1.8 - 2.4 mg/l 2 d (Daphnia magna (Big water flea)) EC₅₀ : 4.6 mg/l 3 d (Algae/water plant, Pseudokirchnerie lla subcapitata) OECD 201 EC₅₀ : 9.68 mg/l 30min

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	Yes, rapidly	
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	Yes, rapidly	
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	Yes, rapidly	

12.3. Bioaccumulative potential

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	3.15	25.9 Species: Oncorhynchus mykiss (Rainbow trout)
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1.9	
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	3.15	

12.4. Mobility in soil

No data available

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	—
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	—

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

07 01 04 * other organic solvents, washing liquids and mother liquors





*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy-1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy-1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy-1-methylethyl acetate)	FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy-1-methylethyl acetate)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
III	III	III	III

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: 274 601 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 30 Classification code: F1 tunnel restriction code: (D/E) Remark:	Special provisions: 274 601 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Classification code: F1 Remark:	Special provisions: 223 274 955 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 EmS-No.: F-E, S-E Remark:	Special provisions: A3 Limited quantity (LQ): Y344 Excepted Quantities (EQ): E1 Remark:

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

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

6

Water hazard class

WGK:

2 - deutlich wassergefährdend

Other regulations, restrictions and prohibition regulations

Arbeitsmedizinische Grundsätze G29: "Toluol, Xylol"

ZH 1/75.1 "Verordnung über brennbare Flüssigkeiten"

ZH 1/129 "Merkblatt: Reizende Stoffe/Ätzende Stoffe (M 004)"

ZH 1/319 "Merkblatt: Lösemittel (M 017)"

15.2. Chemical Safety Assessment

No data available

SAFETY DATA SHEET

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

Revision date: 5 Jan 2021

Print date: 5 Jan 2021

Version: 2



UNIVERSAL CLEANER

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	On basis of test data.
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
Acute toxicity (dermal) (<i>Acute Tox. 4</i>)	H312: Harmful in contact with skin.	Calculation method.
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (ears)	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure. (ears)

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
--------	---

16.6. Training advice

No data available

16.7. Additional information

No data available