



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

- 1.1 Product identifier** Buehler Replicating Media, Comp. B
Article number 57-6004
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Relevant uses**
Base
- 1.2.2 Uses advised against**
None known.
- 1.3 Details of the supplier of the safety data sheet**
- Company** BUEHLER, a division of Illinois Tool Works Inc.
41 Waukegan Road
Lake Bluff, IL 60044 / USA
Phone 847-295-6500
Homepage www.buehler.com
E-mail inside.sales@buehler.com
- Address enquiries to**
- Technical information** inside.sales@buehler.com Phone: +1 847-295-6500
- Safety Data Sheet** sdb@chemiebuero.de
- 1.4 Emergency telephone number**
- Advisory body** US Chemtrec: +1 800 424-9300 (24h)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
No classification.
- 2.2 Label elements**
- The product does not require a hazard in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)
- Hazard pictograms** none
- Signal word** none
- Hazard statements** none
- Precautionary statements** none
- 2.3 Other hazards**
- Other hazards** No particular hazards known.



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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
5 - < 10	White mineral oil (petroleum) CAS: 8042-47-5, EINECS/ELINCS: 232-455-8 GHS/CLP: Asp. Tox. 1: H304
1 - < 3	Hydrocarbons, c4, 1,3-butadiene-free, polym., pentaisobutylene fraction, hydrogenated CAS: 93685-79-1, EINECS/ELINCS: 297-627-7 GHS/CLP: Asp. Tox. 1: H304
1 - < 3	Carbon black CAS: 1333-86-4, EINECS/ELINCS: 215-609-9 GHS/CLP: Acute Tox. 5: H313 - Carc. 2: H351

Comment on component parts

Addition-vulcanising 2-component silicone.
The contained dangerous materials are not freely available with foreseeable use.
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam.
foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Silicon compounds
Chlorine compounds.
Nitrogen oxides (NOx).
Carbon monoxide (CO)
Carbon dioxide (CO2)



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5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Take off contaminated clothing and wash before reuse.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.

Keep container tightly closed.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (US)

Substance
White mineral oil (petroleum)
CAS: 8042-47-5, EINECS/ELINCS: 232-455-8
Long-term exposure: 5 mg/m ³ , oil mist TWA, ACGIH
Carbon black
CAS: 1333-86-4, EINECS/ELINCS: 215-609-9
Long-term exposure: 3,5 mg/m ³ , OSHA; ACGIH: 3 mg/m ³ TWA



8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. General limit for oil mist should be noted.
Eye protection	safety glasses (EN 166:2001)
Hand protection	0,4mm: butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing. Do not breathe vapor/spray. Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	viscous
Color	black
Odor	characteristic
Odor threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 93°C / > 200°F
Flammability [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapor pressure/gas pressure [kPa]	No information available.
Density [g/ml]	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapor density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).



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10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.
Formation of Formaldehyde during the thermal decomposition.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rabbit: > 2000 mg/kg.
LC50, inhalative, Rat: > 5000 mg/m ³ .
Hydrocarbons, c4, 1,3-butadiene-free, polym., pentaisobutylene fraction, hydrogenated, CAS: 93685-79-1
LD50, dermal, > 2000 mg/kg (Lit.).
LD50, oral, > 5000 mg/kg (Lit.).
Carbon black, CAS: 1333-86-4
LD50, dermal, Rabbit: > 3000 mg/kg.
LD50, oral, Rat: > 8000 mg/kg.

Serious eye damage/irritation	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Skin corrosion/irritation	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Mutagenicity	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. Carbon black (CAS 1333-86-4) - IARC classified extract of steam and air as possibly carcinogenic (Group 2B)(based on rat inhalation studies IARC). Carbon black (CAS 1333-86-4) - Not listed as a carcinogen by NTP, ACGIH, OSHA or the European Union. The contained dangerous materials are not freely available with foreseeable use.
Aspiration hazard	Based on the information available, the classification criteria have not been fulfilled.
General remarks	none



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SECTION 12: Ecological information

12.1 Toxicity

Substance
Carbon black, CAS: 1333-86-4
LC50, (96h), Danio rerio: > 1000 mg/l.
EC50, (72h), Desmodesmus subspicatus: > 10000 mg/l (OECD 201).
EC50, (24h), Daphnia magna: > 5600 mg/l (OECD 202).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	Can be separated out mechanically in purification plants.
Biological degradability	No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

The product is insoluble in water.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities [RCRA Hazard Class (40CFR 261)].

Product	Coordinate disposal with the authorities if necessary.
Contaminated packaging	Contaminated packing should be disposed of as product waste.



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SECTION 14: Transport

14.1 UN number

DOT Road Shipment Information (49 CFR) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

DOT Road Shipment Information (49 CFR) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

DOT Road Shipment Information (49 CFR) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

DOT Road Shipment Information (49 CFR) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable



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14.5 Environmental hazards

DOT Road Shipment Information (49 CFR) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

National regulations	29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65
- SARA, 302	No information available.
- SARA, 311	This product is not classified as hazardous under SARA 311.
- SARA, 313	This product is not classified as hazardous under SARA 313.
- CA Proposition 65	Some chemical substances Carbon black in this material are named in California-P65 list.
- TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
- FDA	No information available.
American Conference of Governmental Industrial Hygienists - ACGIH	Carbon black: A4 - Not classifiable as a human carcinogen.
International Agency for Research on Cancer IARC	Carbon black: Group 2B carcinogen.
National Toxicology Program - NTP	This product is not named NTP - National Toxicology Program.
HAP-VOC	This product does not contain HAP's ore VOC.
Transport-regulations	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
Other Right to Know Laws	

15.2 Chemical safety assessment not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H351 Suspected of causing cancer.
H313 May be harmful in contact with skin.
H304 May be fatal if swallowed and enters airways.



16.2 Ratings

HMIS Ratings

HEALTH	0	0 - Minimal Hazard
FLAMMABILITY	1	1 - Slight Hazard
PHYSICAL HAZARD	0	0 - Minimal Hazard
PERSONAL PROTECTION	X	X - Personal protection rating to be supplied by user depending on use conditions

NFPA Ratings

1
0 0
-

TOP, FLAMMABILITY: 1 - Slight Hazard
LEFT, HEALTH: 0 - Minimal Hazard
RIGHT, REACTIVITY: 0 - Minimal Hazard
BOTTOM, SPECIAL NOTICE: -

16.3 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;
CAS = Chemical Abstracts Service;
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
CFR = Code of Federal Regulations;
CPR = Controlled Products Regulations;
DMEL = Derived Minimum Effect Level;
DNEL = Derived No Effect Level;
DOT = Department of Transportation;
EC50 = Median effective concentration;
EPA = Environmental Protection Agency;
GHS = Globally Harmonized System of Classification and Labelling of Chemicals;
IATA = International Air Transport Association;
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
IC50 = Inhibition concentration, 50%;
IMDG = International Maritime Code for Dangerous Goods;
IARC = International Agency of Research on Cancer;
IATA = International Air Transport Association;
TSCA = Toxic Substance Control Act;
HMIS = Hazardous Materials Identification System;
NFPA = National Fire Protection Association;
NIOSH = National Institute for Occupational Safety and Health;
OSHA = Occupational Safety and Health Administration;
LC50 = Lethal concentration, 50%;
LD50 = Median lethal dose, 50%;
MARPOL = International Convention for the Prevention of Marine Pollution from Ships;
PBT = Persistent, Bioaccumulative and Toxic substance;
PNEC = Predicted No-Effect Concentration;
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;
SARA = Superfund Amendments and Reauthorization Act;
TLV@TWA = Threshold limit value – time-weighted average;
TLV@STEL = Threshold limit value – short-time exposure limit;
VOC = Volatile Organic Compounds;
vPvB = very Persistent and very Bioaccumulative;

16.4 Other information

Modified position

none



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