BUEHLER, a division of Illinois Tool Works Inc.
Lake Bluff, IL 60044

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

1.1 Product identifier
Buehler Replicating Media, Comp. A
Article number 57-6004

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

1.2.1 Relevant uses
Catalyst

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.
SECTION 3: Composition / Information on ingredients

Product-type:
The product is a mixture.

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>CAS</th>
<th>GHS/CLP: Asp. Tox. 1: H304</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - &lt; 10</td>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5,</td>
<td>232-455-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EINECS/ELINCS:</td>
<td></td>
</tr>
<tr>
<td>1 - &lt; 3</td>
<td>Hydrocarbons, c4, 1,3-butadiene-free, polym., pentaisobutylene fraction, hydrogenated</td>
<td>93685-79-1,</td>
<td>297-627-7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EINECS/ELINCS:</td>
<td></td>
</tr>
</tbody>
</table>

Comment on component parts
Addition-vulcanising 2-component silicone.
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)

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 within 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)

<table>
<thead>
<tr>
<th>Substance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td></td>
</tr>
<tr>
<td>CAS: 8042-47-5, EINECS/ELINCS: 232-455-8</td>
<td></td>
</tr>
<tr>
<td>Long-term exposure: 5 mg/m³, oil mist TWA, ACGIH</td>
<td></td>
</tr>
</tbody>
</table>
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 touch vapor/spray.
Avoid contact with eyes and skin.

Respiratory protection
Not breathe vapor/spray.

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 touch vapor/spray.
Avoid contact with eyes and skin.

Respiratory protection
Not breathe vapor/spray.

Thermal hazards
None

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form
Viscous

Color
No information available.

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).
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

<table>
<thead>
<tr>
<th>Substance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum), CAS: 8042-47-5</td>
<td></td>
</tr>
<tr>
<td>LD50, oral, Rat: &gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD50, dermal, Rabbit: &gt; 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LC50, inhalative, Rat: &gt; 5000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, c4, 1,3-butadiene-free, polym., pentaisobutylene fraction, hydrogenated, CAS: 93685-79-1</td>
<td></td>
</tr>
<tr>
<td>LD50, dermal, &gt; 2000 mg/kg (Lit.)</td>
<td></td>
</tr>
<tr>
<td>LD50, oral, &gt; 5000 mg/kg (Lit.)</td>
<td></td>
</tr>
</tbody>
</table>

Serious eye damage/irritation
Toxicological data of complete product are not available.

Skin corrosion/irritation
Toxicological data of complete product are not available.

Respiratory or skin sensitisation
Toxicological data of complete product are not available.

Specific target organ toxicity — single exposure
Toxicological data of complete product are not available.

Specific target organ toxicity — repeated exposure
Toxicological data of complete product are not available.

Mutagenicity
Toxicological data of complete product are not available.

Reproduction toxicity
Toxicological data of complete product are not available.

Carcinogenicity
Toxicological data of complete product are not available.

Aspiration hazard
Based on the information available, the classification criteria have not been fulfilled.

General remarks
none
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.

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

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
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
  No chemical substances in this material are named on the 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
Ingredients not listed as carcinogens.

International Agency for Research on
Cancer IARC
IARC: Not classifiable as to carcinogenicity to humans.

National Toxicology Program - NTP
This product is not named NTP - National Toxicology Program.

HAP-VOC
This product does not contain HAP's or VOC.

Transport-regulations

15.2 Chemical safety assessment
not applicable

SECTION 16: Other information

16.1 Hazard statements
SECTION 03

H304 May be fatal if swallowed and enters airways.

16.2 Ratings

HMIS Ratings

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>0 - Minimal Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>1 - Slight Hazard</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0 - Minimal Hazard</td>
</tr>
<tr>
<td>PERSONAL PROTECTION</td>
<td>X - Personal protection rating to be supplied by user depending on use conditions</td>
</tr>
</tbody>
</table>

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;
HMS = 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

Copyright: Chemiebüro®