Safety Data Sheet
MAPEKER RAPID SET FLEX

Safety Data Sheet dated 23/11/2012, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier
   Trade name: MAPEKER RAPID SET FLEX

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Cement based powder adhesive
   Uses advised against: ==

1.3. Details of the supplier of the safety data sheet
   Supplier:
   MAPEI U.K. Ltd - Mapei House Steel Park Road
   Halesowen - West Midlands B62 8HD
   Competent person responsible for the safety data sheet:
   sicurezza@mapei.it

1.4. Emergency telephone number
   MAPEI U.K. Ltd - phone: +44(0)121 508 6970
   fax: +44(0)121 5086 960
   www.mapei.co.uk (office hours)

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
   Directive criteria, 67/548/CE, 1999/45/EC and following amendments thereof:
   Properties / Symbols:
   This product is not a hazardous article and need not be labelled according to EC Directive 67/548, 99/45 as amended.

   Adverse physicochemical, human health and environmental effects:
   No other hazards

2.2. Label elements
   Special Provisions:
   Safety data sheet available for professional user on request.

   Special provisions according to Annex XVII of REACH and subsequent amendments:
   None

2.3. Other hazards
   vPvB Substances: None - PBT Substances: None
   Other Hazards:
   No other hazards
   See at paragraph 11 the additional information concerning crystalline silica This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

SECTION 3: Composition/information on ingredients
3.1. Substances
   N.A.

3.2. Mixtures
   Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and corresponding classification: 

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50% - 75% free crystalline silica (Ø > 10 µ)
CAS: 14808-60-7, EC: 238-878-4

1% - 2.5% Portland cement, Cr(VI) < 2 ppm
CAS: 65997-15-1, EC: 266-043-4
Xi; R36/37/38

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Wash with plenty of water and soap.
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of Ingestion:
Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed
No specific hazards are encountered under normal product use.
This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment:
(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
The product does not present a fire hazard

5.3. Advice for firefighters
Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
Rapidly recover the product, wearing protective clothing.
Scoop into containers and seal for disposal.
After the product has been recovered, rinse the area and materials involved with water.
6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Avoid contact with skin and eyes and exposure to high dust concentration.
Avoid powder development and deposit
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
7.2. Conditions for safe storage, including any incompatibilities
Always keep the containers tightly closed.
Incompatible materials:
Keep away from water or from damp surroundings.
Instructions as regards storage premises:
Adequately ventilated premises.
7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
free crystalline silica (Ø > 10 µ) - CAS: 14808-60-7
TLV TWA: - 0,05 mg/m³ (respirable fraction)
Portland cement, Cr(VI) < 2 ppm - CAS: 65997-15-1
TLV TWA: - (polvere)10 mg/m³
DNEL Exposure Limit Values
N.A.
PNEC Exposure Limit Values
N.A.
8.2. Exposure controls
Eye protection:
Safety goggles.
Not needed for normal use. Anyway, operate according to good working practices.
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Not needed for normal use.
Respiratory protection:
Not needed for normal use.
Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves
and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the
suitability of equipment against specific chemicals and for user information.

Thermal Hazards:
None
Environmental exposure controls:
None

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Appearance: powder
Colour: grey or white
Odour: slight, typical of cement
Odour threshold: N.A.
PH: 12-12.5
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Flash point: == °C
Evaporation rate: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Apparent density: 1.5 g/cm³
Vapour density (air=1): N.A.
Solubility in water: <5 g/l
Solubility in oil: insoluble
Viscosity: N.A.
Auto-ignition temperature: == °C
Explosion limits(by volume): ==
Decomposition temperature: N.A.
Partition coefficient (n-octanol/water): N.A.
Explosive properties: ==
Oxidizing properties: N.A.

9.2. Other information
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.
Substance Groups relevant properties N.A.

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Route(s) of entry:
Ingestion: Yes
Inhalation: Yes
Contact: No
Toxicological information related to the product:
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.
Toxicological information of the mixture:
N.A.
Toxicological information of the main substances found in the mixture:
N.A.
Corrosive/Irritating Properties:
Skin:
   The product can cause irritation by contact.
Eye:
   The product can cause irritation by contact
Sensitizing Properties:
   No effects are known.
Cancerogenic Effects:
The IARC (International Agency for Research on Cancer) believes that the crystalline silica inhaled at the workplace can cause lung cancer in man. However, it also points out that the cancer effect depends on the silica characteristics and on the biological-physical condition of the environment. There is a large amount of information in support of the fact that increased risk of cancer is limited to persons suffering from silicosis.

In the current situation of studies, protection of workers from silicosis can be ensured by respecting the exposure limit values.

Mutagenic Effects:
   No effects are known.
Teratogenic Effects:
   No effects are known.
Additional Information:
Contains cement. Cement gives a strong alkaline reaction with water and body fluids (e.g. sweat and eye fluids), therefore the contact with skin and eyes should be carefully avoided. If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:
   a) acute toxicity;
   b) skin corrosion/irritation;
   c) serious eye damage/irritation;
   d) respiratory or skin sensitisation;
   e) germ cell mutagenicity;
   f) carcinogenicity;
   g) reproductive toxicity;
   h) STOT-single exposure;
   i) STOT-repeated exposure;
   j) aspiration hazard.

SECTION 12: Ecological information
12.1. Toxicity
   Not available data on the mixture
   Adopt good industrial practices, so that the product is not released into the environment.
   N.A.
12.2. Persistence and degradability
   N.A.
12.3. Bioaccumulative potential
   N.A.
12.4. Mobility in soil
   N.A.
12.5. Results of PBT and vPvB assessment
   vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force. 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of not hardened product (EC waste code) : 17 01 01
The suggested European waste code is just based on the composition of the product.
According to the specific process or application field a different waste code may be necessary.

SECTION 14: Transport information

14.1. UN number
UN Number: ==

14.2. UN proper shipping name
N.A.

14.3. Transport hazard class(es)
Rail/Road(RID/ADR): no dangerous good
ADR-Upper number: NA
Air (ICAO/IATA): no dangerous good
Sea (IMO/IMDG): no dangerous good
N.A.

14.4. Packing group
N.A.

14.5. Environmental hazards
ADR Environmental Pollutant: Marine pollutant: No
N.A.

14.6. Special precautions for user
N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 453/2010 (Annex I)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None

REACH Regulation (1907/2006)

REACH Regulation (1907/2006) – All. XVII
The product contains Cr (VI) under the limitse established by annex. XVII pt.47. Respect the duration according to the information described on the packaging

REACH Regulation n°1907/2006 (REACH) – Art. 59 (Substances in “Candidate List”): N.A.
Social Dialogue on Respirable Crystalline Silica

On April 26, 2006 was signed a multi-sector social dialogue, based on a "Guide to Good Practices", on workers health protection who are in contact with products containing crystalline silica. The text of the agreement published in G.U. European Union (2006 / C 279/02) and the "Guide to Good Practices", with attachments, are available on www.nepsi.eu website, they offer guidelines and useful information for handling products containing respirable crystalline silica.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:
R36/37/38 Irritating to eyes, respiratory system and skin.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 5: Firefighting measures

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:
NIOSH - Registry of toxic effects of chemical substances
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX'S - Dangerous properties of industrial materials
Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. This MSDS cancels and replaces any preceding release.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road.</td>
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<td>CAS</td>
<td>Chemical Abstracts Service (division of the American Chemical Society).</td>
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<td>CLP</td>
<td>Classification, Labeling, Packaging.</td>
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<td>DNEL</td>
<td>Derived No Effect Level.</td>
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<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances.</td>
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<td>GefStoffVO</td>
<td>Ordinance on Hazardous Substances, Germany.</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labeling of Chemicals.</td>
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<tr>
<td>IATA</td>
<td>International Air Transport Association.</td>
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<tr>
<td>IATA-DGR</td>
<td>Dangerous Goods Regulation by the “International Air Transport Association” (IATA).</td>
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<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization.</td>
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<tr>
<td>ICAO-TI</td>
<td>Technical Instructions by the “International Civil Aviation Organization” (ICAO).</td>
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<td>INCI</td>
<td>International Nomenclature of Cosmetic Ingredients.</td>
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<td>KSt</td>
<td>Explosion coefficient.</td>
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<td>LC50</td>
<td>Lethal concentration, for 50 percent of test population.</td>
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<tr>
<td>LD50</td>
<td>Lethal dose, for 50 percent of test population.</td>
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<td>LTE</td>
<td>Long-term exposure.</td>
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<tr>
<td>LTE</td>
<td>Short-term exposure.</td>
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<tr>
<td>PNEC</td>
<td>Predicted No Effect Concentration.</td>
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<tr>
<td>RID</td>
<td>Regulation Concerning the International Transport of Dangerous Goods by Rail.</td>
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<td>STE</td>
<td>Short-term exposure.</td>
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<td>STEL</td>
<td>Short Term Exposure limit.</td>
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<td>STOT</td>
<td>Specific Target Organ Toxicity.</td>
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<td>TLV</td>
<td>Threshold Limiting Value.</td>
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<td>TWA</td>
<td>Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).</td>
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<tr>
<td>OEL</td>
<td>European threshold limit value</td>
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<td>VLE</td>
<td>Threshold Limiting Value.</td>
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<td>WGK</td>
<td>German Water Hazard Class.</td>
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