# Safety Data Sheet

**In compliance with 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)**

**Version: 4** **Revision date: March 2018**

## Section 1. Identification

### 1.1 Product identifier: 26-1600 French Chalk

| | | | | | |
|---|---|---|---|---|---|
| HTPultra5 | HTPultra5c | HTPultra5L | HTPultra10 | HTPultra10c | HTPultra10L |
| HTP05 | HTP05c | HTP05L | HTP1 | HTP1c | HTP1L |
| HTP2 | HTP2c | HTP2L | HTP3 | HTP3L | HTP4 |
| HVTultrac | BT2213 | BT2210 | BT2209 | BT2207 | BT2204 |
| BT2204L | BT2203 | BT2203L | BT2202 | BT2202c | BT2202L |
| CH05L | NB240L | GT4410 | CH2 | CH2L | CH05 |
| HM05c | NB140L | HM4 | HM05 | HM05L | |

| | | |
|---|---|---|
| **Substance name:** | Talc | |
| **Synonyms:** | talcum, steatite, soapstone. | |
| **Chemical name and formula:** | Hydrous magnesium silicate. | $Mg_3Si_4O_{10}(OH)_2$ |
| **CAS:** | 14807-96-6 | |
| **EINECS:** | 238-877-9 | |

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

| | |
|---|---|
| **Identified uses:** | Functional mineral for use in industrial applications. |
| **Use advised against:** | None |

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

| | |
|---|---|
| Company name | IMI Fabi L.L.C. |
| Address | 209 Marshall Street – 26031 Benwood (WV) - USA |
| Phone N° | (+1) 304 233 0050 |
| E-mail of responsible person for SDS: | info@imifabi.com |

### 1.4 Emergency telephone numbers

| | |
|---|---|
| Emergency phone number at the Company: | (+1) 304 233 0050 |
| Available outside office hours: | No |

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| | |
|---|---|
| Languages of the phone service: | English |

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

| | |
|---|---|
| GHS Classification: | no classification |

### 2.2 Label elements

| | |
|---|---|
| **Pictogram:** | none |
| **Signal word:** | none |
| **Hazard statement** | none |
| **Precautionary statement:** | none |

**2.3 Other hazards:** none

## Section 3. Composition / Information on ingredients

Talc is a substance of Unknown or Variable composition, Complex reaction products or Biological materials (UVCB, type 4).

| Name | CAS | EC Number | Concentration range (wt%) | Classification according to Reg. (EC) 1272/2008 |
|---|---|---|---|---|
| Talc | 14807-96-6 | 238-877-9 | 100% | Not classified |

| | |
|---|---|
| **Impurities:** | Not applicable. The purity of the product is 100 % w/w. The product contains below 1% (w/w) fine fraction of quartz (CAS: 14808-60-7). |

## Section 4. First-aid Measures

### 4.1 Description of first aid measures

| | |
|---|---|
| **Eye contact:** | Rinse with copious quantities of water and seek medical attention if irritation persists. |
| **Skin contact:** | No special first aid measures necessary. |
| **Inhalation:** | No special first aid measures. Remove to fresh air and get medical attention in case of serious respiratory problems. |

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| | |
|---|---|
| **Ingestion:** | No first aid measures required. |

**4.2 Most important symptoms and effects both acute and delayed**

Symptoms of acute accidental exposure would be non-specific and similar to those of a massive inhalation of any dust without toxic effects. These symptoms may include coughing, expectoration, sneezing, and difficulty in breathing due to upper respiratory tract irritation.

**4.3 Indication of immediate medical attention and special treatment needed:**

No specific actions are required

## Section 5. Fire-fighting Measures

**5.1 Extinguishing media:**

| | |
|---|---|
| 5.1.1. Suitable extinguishing media: | All extinguishing media can be used. |
| 5.1.2. Unsuitable extinguishing media: | No restriction on the extinguishing media to be used. |

**5.2 Special hazards arising from the substance or mixture:**

The products are not flammable, combustible or explosive. No hazardous thermal decomposition.

**5.3 Advice for fire-fighters:**

No specific fire-fighting protection is required. Use an extinguishing agent suitable for the surrounding fire.

## Section 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures:**

Avoid airborne dust generation. If the generation of dust is likely, respiratory personal protective equipment should be worn in compliance with MSHA/NIOSH or OSHA/NIOSH.

**6.2 Environmental precautions:**

No special requirements. Contain spillage and clean up as indicated below.

**6.3 Methods and material for containment and cleaning up:**

Dry products should be cleaned with a shovel or vacuum cleaner (with high-efficiency particulate air filter) while wearing personal protective equipment in compliance with national legislation. Washing the floor with water is not recommended since it may cause the floor to become slippery. However, if talc is already wet, and only in this case, the floor should be thoroughly flushed with water to remove all slipperiness.

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| | |
|---|---|
| **6.4** | **Reference to others sections:** |
| See sections 8 and 13 | |

## Section 7. Handling and Storage

| | |
|---|---|
| **7.1** | **Precautions for safe handing:** |
| 7.1.1. Protective measures: | Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. |
| 7.1.2. Advice on general occupational hygiene: | Do not to eat, drink and smoke in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas. |

| | |
|---|---|
| **7.2** | **Conditions for safe storage, including any incompatibilities:** |

**Technical measures/ Precautions**

Keep the products dry and in closed containers.

| | |
|---|---|
| **7.3** | **Specific end use(s):** |

If you require advice on specific uses, please contact your supplier

## Section 8. Exposure Controls / Personal Protection

| | |
|---|---|
| **8.1** | **Control parameters:** |

Follow workplace regulatory exposure limits for all types of airborne dust (e. g. total dust, respirable dust and respirable crystalline silica).

The ACGIH OEL (Occupational Exposure Limit) for talc containing no asbestos fibres and less than 1% crystalline silica is 2 mg/m$^3$ measured as an 8 hours TWA (Time Weighted Average).

For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

| | |
|---|---|
| **8.2** | **Exposure controls** |
| 8.2.1 | Appropriate engineering controls: |

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures,

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e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

**8.2.2 Individual protection measures, such as personal protective equipment:**

**8.2.2.1. Eye protection:**

Wear safety glasses with side-shields in circumstances where there is a risk of dust generation which could lead to mechanical irritation of the eye.

**8.2.2.2. Skin protection:**

No specific requirement. For hands, see below

**Hand protection:**

Protective gloves are not necessary but recommended for those prone to skin irritation or dryness.

**8.2.2.3. Respiratory protection:**

In case of prolonged overexposure to high airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 – FP3) is recommended; follow the recommendations of MSHA/NIOSH or OSHA/NIOSH.

**8.2.3 Environmental exposure controls**

Avoid wind dispersal

## Section 9. Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance:** | Solid. White, off white to light grey powder.<br>Solid. White, off white to light grey blocks.<br>Solid. White, off white to light grey pellets. |
| Odour: | Odourless |
| Odour threshold: | Not applicable |
| pH | 8.5-9.0 (10% wt in water dispersion) |
| Melting point: | >1300°C |
| Boiling point: | not applicable (solid with a melting point > 1300°C) |
| Flash point: | not applicable (inorganic solid with a melting point > 1300°C) |

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| | | | | |
|---|---|---|---|---|
| | | Evaporation rate: | not applicable (solid with a melting point > 1300°C) | |
| | | Flammability (solid, gas): | Not flammable. | |
| | | Explosive limits: | Not explosive. (void of any chemical structures commonly associated with explosive properties). Limits do not apply. | |
| | | Vapour pressure: | not applicable (solid with a melting point > 1300°C) | |
| | | Vapour density: | not applicable | |
| | | Relative density: | 2.7 – 2.8 g/cm$^3$ | |
| | | Solubility (ies): | | |
| | | | Solubility in water: | Negligible |
| | | | Solubility in hydrofluoric acid: | Yes |
| | | Partition coefficient: | not applicable (inorganic substance) | |
| | | Auto-ignition temperature: | not auto flammable | |
| | | Decomposition temperature: | >1000°C | |
| | | Viscosity: | not applicable (solid with a melting point > 1300°C) | |
| | | Explosive properties: | no explosive properties predicted from the structure | |
| | | Oxidising properties: | no oxidising properties predicted from the structure | |

**9.2 Other information:**

No other information

## Section 10. Stability and Reactivity

| | | |
|---|---|---|
| **10.1** | **Reactivity:** | Inert, not reactive |
| **10.2** | **Chemical stability:** | Chemically stable. |
| **10.3** | **Possibility of hazardous reactions:** | No hazardous reaction. |
| **10.4** | **Conditions to avoid:** | none |
| **10.5** | **Incompatible materials:** | none known |
| **10.6** | **Hazardous decomposition products:** | none |

## Section 11. Toxicological Information

**11.1 Information on toxicological effects**

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| | Toxicity endpoints | Outcome of the effects assessment |
|---|---|---|
| | Acute toxicity | Talc is not acutely toxic.<br>Oral $LD_{50}$ > 5000 mg/kg bw (Weir, 1974)<br>Dermal no data available<br>Inhalation no data available |
| | Skin corrosion/irritation | Talc is not irritating to skin (*in vivo*, OECD 404, rabbit).<br>Classification for Irritation/corrosion is not warranted |
| | Serious eye damage/irritation | No data available |
| | Respiratory or skin sensitization | No data available |
| | Germ cell mutagenicity | Talc is not genotoxic (in vitro study results OECD 471)<br>From the strains tested talc appears to have no mutagenic effects<br>Classification for mutagenicity is not warranted. |
| | Carcinogenicity | **IARC:** inhaled talc not containing asbestos or asbestiform fibres is not classifiable as to its carcinogenicity (Group 3), IARC Monograph Volume 93, 2010.<br>In 2006, IARC concluded that inhaled talc not containing asbestos or asbestiform fibres is not classifiable as a human carcinogen (Group 3). IARC ruled that there is limited evidence that the use of talc-based body powder for perineal dusting is a possible risk factor for ovarian cancer (Group 2B). This is not a route of exposure relevant to workers and applies only to one specific use of talc.<br>Classification for carcinogenicity is not warranted.<br><br>**OSHA:** not listed<br><br>**ACGIH:** A4 – not classified as a human carcinogen<br><br>**WHMIS:** class D-2A: very toxic material causing other toxic effects [reference: NTP, *Technical report on the toxicological and carcinogenesis studies of talc (cas no. 14807-96-6) in F344 rats bd B6C3F1 mice (inhalation studies).* Technical report series, No. 421. Research Triangle Park, N.C.: EPA (1993)]. Chronic toxic effect: impaired pulmonary fuction in rats at 6 $mg/m^3$. |
| | Reproductive toxicity | No data available |

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| | | |
|---|---|---|
| | | Oral exposure to talc has no effect on the development of the foetus, or maternal, or foetal survival (OECD 414, rabbit) |
| | STOT Single exposure | No data available |
| | STOT Repeated exposure | No organ toxicity observed in repeated dose toxicity tests<br><br>Oral: no adverse effect observed in animal study (Wagner JC et al., 1977)<br><br>Inhalation: no classification for Specific Target Organ toxicity by inhalation upon repeat dose exposure is warranted. Any health effects are likely to be non-specific particle effects rather than a specific intrinsic fibrogenic activity of the mineral.<br><br>Dermal: toxicity via the dermal route is not considered as relevant.<br><br>Therefore, classification of talc for toxicity upon prolonged exposure by oral route, by dermal route or inhalation is not warranted. |
| | Aspiration hazard | No aspiration hazard envisaged |

## Section 12. Ecological Information

| | | |
|---|---|---|
| **12.1** | **Toxicity:** | No data available. No specific adverse effects known. |
| **12.2** | **Persistence and degradability:** | No data available. Products are inorganic substances and therefore are not considered biodegradable. |
| **12.3** | **Bioaccumulative potential:** | Not relevant for inorganic substances |
| **12.4** | **Mobility in soil:** | Negligible |
| **12.5** | **Results of PBT and vPvB assessment:** | Not relevant |
| **12.6** | **Other adverse effects:** | No other adverse effects are identified. |

## Section 13. Disposal Considerations

| | |
|---|---|
| **13.1** | **Waste treatment methods** |
| | Disposal of these products should be in accordance with local and national legislation |

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| | |
|---|---|
| | Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations. |
| | Dust formation from residues in packaging should be avoided and suitable worker protection assured. |
| | Store used packaging in enclosed receptacles. |
| | The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorized waste management company. |
| | Recycling and disposal of packaging should be carried out in compliance with local regulations. |

## Section 14. Transport Information

| | | |
|---|---|---|
| **14.1** | **UN number:** | Not relevant |
| **14.2** | **UN proper shipping name:** | Not relevant |
| **14.3** | **Transport hazard class(es):** | |
| | ADR: | not classified |
| | IMDG: | not classified |
| | ICAO/IATA: | not classified |
| | RID: | not classified |

| | | |
|---|---|---|
| **14.4** | **Packing group:** | Not applicable |
| **14.5** | **Environmental hazards:** | Not relevant |
| **14.6** | **Special precautions for user:** | No special precautions. |
| **14.7** | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** | Not relevant |
| **14.8** | **US Department of Transportation (DOT):** | Not classified |
| **14.9** | **Canadian Transportation of Dangerous Goods:** | Not classified |
| **14.10** | **Harmonized Tariff Code:** | Talc crushed or powdered. 2526.20.00 (stat suffix 00). |
| **14.11** | **EPA TSCA 12(B) Export Notification:** | Not listed |

## Section 15. Regulatory Information

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

**National legislation/requirements:**

The ACGIH OEL (Occupational Exposure Limit) for talc containing no asbestos fibres and less than 1% crystalline silica is 2 mg/m$^3$ measured as an 8 hours TWA (Time Weighted Average).

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| | | |
|---|---|---|
| | **Industrial Safety and Health Law.** | These products do not contain harmful or controlled hazardous substances under ISHL. |
| | | Contains <1% silica. |
| | **Toxic Chemical Control Act.** | These products do not contain chemical substances regulated as toxic, observational, restricted or banned under TCCA. |
| | **Dangerous Substance Management Law.** | These products do not contain chemical substances regulated under DSML. |
| | **Waste Management Law.** | Ensure to dispose in accordance with the waste treatment standards prescribed in Waste Management Law. |

**Other regulations based on domestic or foreign laws:**

The following inventories have been investigated as to the publicly available portion of the lists:

| | | EU | Australia | Canada | Korea | Japan | China | Philippines | USA | Switzerland | New Zeland |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **CAS No.** | **EINECS** | **AICS** | **CEPA (DSL/NDSL)** | **KECI Korean Gazette No.** | **ENCS ISHL/MITI** | **IECSC** | **PICCS** | **TSCA** | **Swiss ID No.** | **NZIoC** |
| Talc | 14807-96-6 | 238-877-9 | yes | yes (DSL) | KE-32773 | yes* | yes | yes | yes | G-6939 | yes |

Yes*: There exists a broad category for naturally occurring chemicals, so these minerals are covered by definition, but not specifically listed.

**15.2 Chemical safety assessment**

Exempted from REACH registration in accordance with Annex V.7. of Regulation (EC) 1907/2006

**15.3 Other pertinent classification/regulations:**

| | |
|---|---|
| **California PROP 65 Status:** | Talc is not listed |
| **State Right-To-Know:** | Talc is listed in Illinois, Massachusetts, New Jersey, Pennsylvania and Florida |
| **Clean Air Act – Ozone depleting chemicals (ODC):** | None |
| **CONEG Approved Packaging:** | Yes |
| **National Fire Protection Association (NFPA) Rating (0-4 scale):** | Health = 0<br>Fire = 0<br>Reactivity = 0 |
| **National Paint and Coating Association (NPCA) – Hazardous Material Identification System (HMIS)** | Health: 1 (chronic potential)<br>Flammability: 0<br>Physical: 0<br>Person protection: dust respirator, safety glasses or googles, gloves. |

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## Section 16. Other Information

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

| | |
|---|---|
| **Date of previous issue:** | July 2016 |

**16.1 Revision details:**

None

**16.2. Abbreviations**

LD50: Medial lethal dose

PBT: Persistent bioaccumulative toxic

vPvB: Very persistent very bioaccumulative

OEL: Occupational exposure level

SDS: Safety data sheet

STOT: Specific target organ toxicity

**16.3. Key literature references**

1. Baan, R, Straif K, Secretan B, Ghissassi FE and Cogliano V. (2006), On behalf of the WHO International Agency for Research on cancer Monograph Working Group. Carcinogenicity of carbon black, titanium dioxide and talc. The Lancet Oncology. 7:295-296.

2. Wild, P.; "Lung cancer risk and talc not containing asbestiform fibers: a review of the epidemiological evidence". Occup. Environ. Med. 2006; 63, 4-9.

3. Cohrssen, B. and Powell C.H. (2001). Talc. In Patty's Toxicology, 5th ed., Bingham, E., Cohrssen, B., and Powell, C.H., eds., John Wiley & Sons, Inc. NY. pp. 519-538.

4. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Vol. 42. Silica and some silicates pp.185-224, International Agency for Research on Cancer, Lyon, France, 1987, 1 vol., 289 p.

5. WILD, P. et coll; „Effects of talc dust on respiratory health: results of a longitudinal survey of 378 French and Austrian talc workers", Occup. Environ. Med. 2008; 65, 261-267.

6. USEPA 1992. Health Assessment Document for Talc, Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, U.S. Environmental Protection Agency, Research Triangle Park, NC. EPA 600/8-91/217, March 1992.

7. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 93 (2010) Carbon Black, Titanium Dioxide, and Talc

**16.4. Relevant H-statements**

None.

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**Disclaimer**

This safety data sheet (SDS) complements the technical data sheets but does not replace them. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.
Only the original English version is authoritative.

End of the Safety Data Sheet