



Material Safety Data Sheet

Issue date: February 2008

1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Substance: Talc
Chemical formula: $Mg_3(OH)_2Si_4O_{10}$
Molecular formula: $3MgO \cdot 4SiO_2 \cdot H_2O$
Mineralogical class: silicates

Trade names: Talc Series HTP, Series BT, Series HC, Series HM, Series CH, Series GT, 140, 141, 1626, 1656, 3355, 5258, 1629, 3351, 3351 Dense, 3351 Lustre, 3355 Dense, 114, 643, LO-MICRON #5

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2 – HAZARDS IDENTIFICATION

- 2.1 Inhalation:** Symptoms of acute accidental exposure are non specific and similar to the inhalation of any dust.; such symptoms may include paroximal coughing, wheezing, difficult breathing and upper respiratory tract irritation. The repeated overexposure can develop a benign pneumoconiosis, known as talcosis, which can cause respiratory problems and lung complications. Smoking and concomitant diseases might impose an additional pulmonary burden which may alter the course of the pneumoconiosis.
- 2.2 Eye contact:** As with most dusts or particulate materials, talc can cause temporary discomfort and irritation if accidentally introduced into the eye
- 2.3 Skin contact:** No adverse effects are known as a consequence of application to unbroken skin

3 – COMPOSITION

3.1 Chemical (mineralogical) composition

Main constituents:			
Name	CAS No	EINECS No	Conc. Range (%wt/wt)
Talc	14807-96-6	238-877-9	70-98
Chlorite	1318-59-8	215-285-9	0.5-30
Dolomite	16389-88-1	240-440-2	0-1
Magnesite	83897-85-2	281-193-0	0-1

3.2 Components presenting a health hazard

Not present. Free of quartz and asbestos.



4 – FIRST AID MEASURES

- 4.1 Eye contact:** flush the affected eye(s) with clean water while holding the eyelids open; if irritation or redness develops, seek medical attention.
- 4.2 Ingestion:** no treatment necessary.
- 4.3 Inhalation:** if irritation of nose or throat develops, move away from source of exposure and into fresh air; if irritation persists or breathing difficulties develop seek immediate medical attention.
- 4.4 Skin contact:** usually of no general concern; broken skin can be cleansed with mild soap and water; if irritation or redness develops and persists, seek medical attention.

5 – FIRE FIGHTING MEASURES

Fire and explosion hazards:	NO.
Extinguishing media:	NONE REQUIRED.
Fire fighting procedures:	NONE REQUIRED.

6 – ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** wear protective clothes and mask as protection from the dust
- 6.2 Environmental precaution:** the product is environmental safe
- 6.3 Method for cleaning up:** If the products is clean an dry, shovel, vacuum or sweep up and return to container for use.
Otherwise sweep or vacuum up for disposal.
CAUTION : the use of water washdown is not recommended unless the spilled material is already wet.
Wet material on a walking surface will be extremely slippery.
Wet spills should be thoroughly flushed with water until non-slippery.

7 – HANDLING AND STOCKING

- 7.1 Safe Handling Advice:** Talc, like all fine powders, can create dust when handled; Keep all floors, workstation, stairs and handrails clean and dry.
- 7.2 Stocking:** Keep in a clean and dry place; all traditional packing methods can be used.
- 7.3 Specific use:** description not required since it is no end-product.

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

- 8.1 Ventilation:** If current ventilation practices are non adequate in maintaining airborne concentrations of talc below the TLV (see also point 15 of the present document), additional ventilation or local exhaust systems may be required
- 8.2 Respiratory Protection:** Avoid prolonged or intensive dust exposure; approved dust respirators should be worn in locations where exposure limits may be exceeded.



- 8.3 Eye Protection:** If necessary, safety glasses or goggles should be worn in areas of potentially high dust concentrations.
- 8.4 Hand Protection:** Protective gloves generally are not required, but recommended for workers who suffers from dermatitis or are susceptible to irritation and dry skin.
- 8.5 Environmental exposure control:** it is not provided because the substance, not classified as toxic, exists as natural mineral and it is widespread in the soil.

9 – CHEMICAL AND PHYSICAL PROPERTIES

9.1 General information

Physical state:	powder
Odour:	none
Colour:	white or near white to light gray

9.2 Important health, safety and environmental informations

Density:	2,7 g/cm ³
pH:	approx. 9
Melting point:	1250-1350°C
Decomposition temperature:	starting around 550°C,
Solubility in water:	approx. 0,2% at 20°C
Solubility in hydrofluoric acid:	soluble

10 – STABILITY AND REACTIVITY

- 10.1 Decomposition Products:** No hazardous products (CO₂ and H₂O >550°C).
- 10.2 Incompatibility:** None.

11 – TOXICOLOGICAL INFORMATION

Toxicology:	Talc is neither orally nor cutaneously toxic. The IARC (International Agency for Research on Cancer) working group stated that there is no evidence of cancerogenity genotoxicity both on animals and on man. No teratogenic effects were found on animals after oral ingestion of talc (Food and Drugs Research Laboratories, 1973). Talc is not listed as a carcinogen by NTP (US National Toxicological Program) and not regulated as a carcinogen by OSHA (US Occupational Safety and Health Agency).
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12 – ECOLOGICAL INFORMATION

Ecotoxicity:	No known dangerous effects on the environment.
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13 – DISPOSAL CONSIDERATIONS

Disposal consideration:	Talc is not a harzadous waste; dispose of in accordance with local, state and federal regulations. Dry material can be landfilled, wet material sewerred, if diluted enough that high viscosity or will not cause a blockage and respecting the local Laws.
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14 – TRANSPORT INFORMATION

U.S. Dept. of transportation	:	NOT REGULATED
Canadian Transportation of dangerous goods	:	NOT REGULATED
Air transport – IATA/ICAO	:	NOT REGULATED
RID/ADR (Int. Regulation for Transport of dangerous Products)	:	NOT LISTED
DOT (Department of Transportation classification)	:	NOT HARZARDOUS
DOT proper shipping name	:	NOT REGULATED
BC Code (Code of Safe Practice for Solid Bulk Cargoes)	:	NOT HARZARDOUS
IMGD (Intern. Code for Dangerous Products)	:	NOT HARZARDOUS
UN Classification for dangerous Products	:	NOT LISTED

15 – REGULATORY INFORMATION

Talc is not classified as a toxic or dangerous substance.

Respirable dust levels are monitored on a regularly scheduled basis in some EEC or Extra-EEC countries.

Particularly:

- in the USA	:	2mg/m ³ ;
- In Italy, Germany and Belgium	:	2mg/m ³ ;
- in the U.K. and Holland	:	1mg/m ³ ,
- in Finland and Austria	:	5mg/m ³ .

EPA TSCA status	:	listed (CAS #14807-96-6)
EPA TSCA 12(B) Export notification	:	not listed
CEPA Domestic substances list – DSL status	:	listed
CEPA Non-Domestic substances list – NDSL status	:	not listed
Canadian WHMIS classification	:	D2b – Chronic inhalation hazard

California Proposition 65 Status	:	talc not listed
State Right-to-know	:	talc listed - Florida; Illinois; Massachusetts; New Jersey; Pennsylvania.

Clean Air Act – ODC's	:	none
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Other Inventories	:	AICS (Australian)
	:	ECL (Korean No: KE 1-686)
	:	KECI (Korean No: KE 32773)
	:	SWISS (ID No: G-6939)
	:	PICCS (Philippines)
	:	MITI (Japan) – Not Listed (not required for natural minerals)
	:	ISHL (Japan) – Not listed
	:	DSL (listed)
	:	NDSL (not listed)
	:	IECSC (China – listed)
	:	NZIoC (New Zeland – listed)

16 – ADDITIONAL INFORMATION

Sources used in preparation of this Safety Data Sheet include:

the American Industrial Hygiene Association; Hygienic Guide Series on Talc.

the American Conference of Governmental Industrial Hygienists TLV and Biological Exposure Indices.

The various national regulations for airborne dusts.

IARC Monographs on the evaluation of the carcinogenic risk of chemicals to humans.

Liability: The data contained herein is based on data available to us and is believed to be correct and accurate. However, the information makes no warranty, expressed or implied, regarding the accuracy or completeness of this information or the result to be obtained from the use thereof.

Issued by: Mario Mondonico - IMI Fabi S.p.A.