



## Regulatory Information

This information is valid for all our hematite and magnetite products  
(Mo i Rana Concentrate H- and M-grades)

- Dangerous substance:** Not classified as a dangerous substance in accordance with 67/548/EEC, 1999/45/EEC, 1907/2006/EEC and CLP/GHS directive 2008/1272/EEC.  
No labelling required.  
No restriction on Marketing and Use (76/769/EEC including amendments).  
Not listed and no classification according to VDA 232-101 (List of Declarable Substances).  
Not hazardous substance/waste in connection with 2000/53/EEC and amendments (End-of life vehicles).
- Heavy metals and their components:** The products contain extremely low contents of heavy metals, which take part in the iron oxide mineral lattice. The heavy metal components are not easy extractable under normal circumstances.  
There are no restrictions connected to EU regulations: 76/769/EEC amended 89/677/EEC and 2004/96/EC -restriction on Marketing and Use-; 94/62/EC amended 99/177/EC - packaging -; RoHS directive 2002/95/EG -banned components-; 2000/60/EEC -water policy-.  
The content of **arsenic (As)** amount to < 5ppm (subject to 2000/60/EEC - water policy .  
The content of **cadmium (Cd)** amounts to < 0.1ppm (Det.lim.), banned from 01. July 2006 by RoHS directive 2002/95/EC.  
The content of **chromium (Cr)** amounts to max. 155ppm.  
The products do not contain any **hexavalent chromium (Cr<sup>VI</sup>)**, banned from 01. July 2006 by RoHS directive 2002/95/EC.  
The content of **mercury (Hg)** amounts to < 0.05ppm (Det.lim.), subject to 76/769/EEC and 89/677/EEC, banned from 01. July 2006 by RoHS directive 2002/95/EC.  
The content of **lead (Pb)** amounts to < 0.5ppm (Det.lim.), banned from 01. July 2006 by RoHS directive 2002/95/EC.
- PBB/PBDE:** The products do not contain Polybrominated compounds as Polybrominated Biphenyls and Polybrominated Diphenyl Ethers.
- Asbestos:** The products do not contain mineral fibres in the form of asbestos (subject to 76/769/EEC and amendments in particular 83/479/EEC, 85/610/EEC, 91/659/EEC; OEHHA, CA, USA, Proposition 65, health hazard).
- Waste:** Not hazardous waste according to Council Directive 91/689/EEC on hazardous waste.



Postboks 434, N-8601 Mo i Rana  
Tel.: +47 751 37 300, Fax: +47 751 37 302  
e-mail: [market@ranagruber.no](mailto:market@ranagruber.no)  
http: [www.ranagruber.no](http://www.ranagruber.no), [www.colorana.com](http://www.colorana.com)

Waste EWC-Code: 01... and 15... according to 75/442/EWG (European Waste List).

**EU regulation – risk phrases:**

The products are not classified according to EU legislations.

**International Chemical Inventory Status:**

Australian AICS, Canadian DSL/NDSL, European EINECS, Japanese ENCS, Korean KECI, Phillipine PICCS, USA TSCA, China IECSC, New Zealand NZIOC.

Swiss law of poison (Giftliste 1, part B: substances proven to be poison-free): G 8310 (Iron(II/III)-oxide, magnetite), G 3717 (Iron(III)-oxide, hematite) (see also IP-E-081).

**REACH (1907-2006EC) Registration:**

The products are defined as substances, which are excluded from the obligation to register in accordance with article 2(7)(b) and Annex V, article 7 of the European Council Regulation 1907-2006EC.

**ATEX (94/9/EC):**

Non-explosive dust.

**TA Luft (air) 2002:**

Para 5.2.1 Total Dust and Annex 7, Tab.22: S-Value for "Schwebstaub" (Germany).

**Ozone Layer Protection:**

The Products comply with the principles of the Ozone Action Programme of April 1999, UNEP, "Montreal Protocol on Substances that Deplete the Ozone Layer", EU directive 2037/2000/EC and amendments, the US Clean Air Act and the Ozone Layer Protection Act of Japan.

The production process and product itself do not involve or produce substances known as being harmful to the ozone layer of the Earth.

**VCI Guideline:**

Storage Class 13 "not combustible".

**Chemical Weapons Convention (CWC):**

The products comply with the principles of the CWC of 19<sup>th</sup> April 1997. No restrictions on either the production or trade.

**Export Control Regulation:** The products are not covered by Ministry's export control list of goods requiring a license when exported from Norway (Export Control Regulation of 10. January 1989, updated 4 July 2007).

**Discharge from Production:**

76/464/EEC: Discharge of certain dangerous substances (fulfils the requirements). **CO<sub>2</sub>**-emission: hydroelectric power is used in most of the production steps. The production itself does not create carbondioxide.

83/513/EEC: **Cd** discharged into the aquatic environment (fulfils the requirements),

84/156/EEC: **Hg** discharged into the aquatic environment 0.05mg/l effluent (fulfils the requirements),



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Tel.: +47 751 37 300, Fax: +47 751 37 302  
e-mail: [market@ranagruber.no](mailto:market@ranagruber.no)  
http: [www.ranagruber.no](http://www.ranagruber.no), [www.colorana.com](http://www.colorana.com)

82/884/EEC: **Pb** emission into the air (fulfils the requirements).

### Rotterdam Convention: Harzardous chemicals and Petizides (2005)

The products do not contain any banned or severely restricted chemicals as listed in Annex III of the Convention. The product itself is not listed.

### SVHC:

**PBT and vPvB free.** The products do not contain Substances of Very High Concern according to candidate list Annex XIV of the REACH regulation and ECHA CHEM guideline

[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

### Dioxin and Furan: (PCDD/PCDF)

The production process does not involve the emission of polychlorinated organic chemicals. The products itself do not contain dioxins and furans in the excess of 0.5ng WHO-PCDD/F-TEQ/kg.

### Halogenated Hydro- carbons (PCTs/PCBs):

The production process does not involve the emission of and the products do not contain halogenated hydrocarbons (subject to 76/769/EEC -restriction on marketing and use- and amendments in particular 82/828/EEC, 85/467/EEC, 89/677/EEC, 2002/45/EEC; 2000/60/EEC -water policy-; PARCOM Decision 95/1; ORRChem: SR 814.81, Switzerland; 76/464/EC -Discharge of certain dangerous substances).

### Drinking Water Compliance:

Magnetite (Fe<sub>3</sub>O<sub>4</sub>) is listed on the positive list for chemicals which are considered to be unobjectionable on health for the treatment of water.

DWI (Drinking Water Inspectorate) Directive 31, List of approved products for use in Public Water Supply in the UK, July 2009, Paragraph A.7.1 Traditional Chemicals.

<http://www.dwi.gov.uk/31/pdf/soslist06.pdf>