

1 Identification of the substance / preparation and of the company

1.1 Product identifier

GEH® 101, GEH® 102, GEH® 104, GEH® 105

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

Chemical raw material / Water treatment

1.3 Details of the supplier of the safety data sheet

Company

GEH-Wasserchemie GmbH & Co.KG
Heinrich-Hasemeier-Str. 33
49076 Osnabrück / GERMANY
Phone: +49 (0) 541-122009
Fax: +49 (0) 541-1811990
Homepage: www.geh-wasserchemie.de
E-mail: info@geh-wasserchemie.de

Responsible

carsten.bahr@geh-wasserchemie.de

1.4 Emergency phone

+49 (0) 541-122009 (9:00-17:00)

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with GHS/CLP-directives.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

The product does not require a hazard warning label in accordance with EC-directives.

2.2 Label elements

Precautionary statements

not applicable

Special labelling

none

2.3 Other hazards

Physico-chemical hazards

No particular hazards known.

Human health dangers

No particular hazards known.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

none

3 Composition / Information on ingredients

3.1 Substances

Range [%]	Substance
50 - 60	Iron hydroxide oxide
	CAS: 20344-49-4, EINECS/ELINCS: 243-746-4
	GHS/CLP: not applicable

3.2 Mixtures

The product in question is a substance.

Comment on component parts

No dangerous components.
Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.

4 First aid measures

4.1 Description of first aid measures

General information none

Inhalation Ensure supply of fresh air.

Skin contact In case of contact with skin wash off with warm water.

Eye contact In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion Rinse out mouth and give plenty of water to drink.

In the event of symptoms seek for medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

not determined

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used none

5.2 Special hazards arising from the substance or mixture

none

5.3 Advice for firefighters

none

none

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures necessary.

6.2 Environmental precautions

No special measures necessary.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Do not store together with acids.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Leather (EN 388). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	none
Other	Avoid contact with eyes and skin. Wash hands before breaks and after work. Use barrier skin cream.
Respiratory protection	not applicable
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See Chapter 6+7.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	granules
Color	black
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	5,5 - 7,5
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	1,15
Bulk density [kg/m³]	1115
Solubility in water	insoluble < 0,1g/l
Partition coefficient [n-octanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	>1000
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with acids.
 Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See chapter 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11 Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Iron hydroxide oxide, CAS: 20344-49-4

LD50, oral, Rat: > 10000 mg/kg (IUCLID).

Serious eye damage/irritation

Non-irritant.

Skin corrosion/irritation

Non-irritant.

Respiratory or skin sensitisation

Non-sensitizing.

Specific target organ toxicity — single exposure

not determined

Specific target organ toxicity — repeated exposure

not determined

Mutagenicity

not determined

Reproduction toxicity

not determined

Carcinogenicity

no

General remarks

none

12 Ecological information**12.1 Toxicity**

Iron hydroxide oxide, CAS: 20344-49-4

LC0, (48h), Leuciscus idus: > 1000 mg/l (IUCLID).

12.2 Persistence and degradability

not applicable

Behaviour in environment compartments

not applicable

Behaviour in sewage plant

Iron hydroxide oxide to adsorb nutrient, specially phosphate.

Biological degradability

not applicable

12.3 Bioaccumulative potential

not applicable

12.4 Mobility in soil

not applicable

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

None known.

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

For recycling, consult manufacturer.

Waste no. (recommended)

190206
190205*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150102
150110*

14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR

NO DANGEROUS GOODS

Classification according to IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Classification according to IATA

NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

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

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

16 Other informations

Observe employment restrictions for people

not applicable

VOC (1999/13/CE)

not applicable

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