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

1.1 Product identifier

Ultraschall-Koppelmittel ZGF

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

1.2.1 Relevant uses

Coupling gel

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

GE Sensing & Inspection Technologies GmbH
Robert-Bosch-Str. 3
50354 Hürth / GERMANY
Phone +49 (0) 2233-601-0
Fax +49 (0) 2233-601-402
Homepage www.ge-mcs.com

Address enquiries to

Technical information geithuerthinfo@ae.ge.com

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +49 (0) 700-24112112 (GEC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

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

No classification.

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms

Signal word WARNING

Contains: Ethylene glycol

Hazard statements H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe vapours.
P314 Get medical advice / attention if you feel unwell.
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

2.3 Other hazards

Environmental hazards No particular hazards known.

Other hazards none

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
12,5 - 20	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, ECB-Nr.: 01-2119456816-28-XXXX
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
	EEC: Xn, R 22
< 0,5	Sodium nitrite
	CAS: 7632-00-0, EINECS/ELINCS: 231-555-9, EU-INDEX: 007-010-00-4
	GHS/CLP: Acute Tox. 3: H301 - Aquatic Acute 1: H400 - Ox. Sol. 3: H272
	EEC: O-T-N, R 25-8-50

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek for medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

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

Ingestion Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

Shortness of breath
Dizziness
Cough
Headache
Gastro-intestinal complains.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
The normal safety precautions for handling chemicals must be observed.
In the event of symptoms seek for medical treatment.

Keep away from open flames, hot surfaces and sources of ignition.

Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original tightly closed container.

Do not store together with acids and oxidizing agents.

Keep away from frost.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
12,5 - 20	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
	Long-term exposure: 20 ppm, 52 mg/m³, Vapour, particulate: 10 mg/m³
	Short-term exposure (15-minute): 40 ppm, 104 mg/m³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
12,5 - 20	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
	Eight hours: 20 ppm, 52 mg/m³, H
	Short-term (15-minute): 40 ppm, 104 mg/m³

DNEL

Range [%]	Substance
12,5 - 20	Ethylene glycol, CAS: 107-21-1
	Industrial, dermal, Long-term - systemic effects: 106 mg/m³.
	Industrial, inhalative, Long-term - local effects: 35 mg/m³.
	general population, dermal, Long-term - systemic effects: 53 mg/m³.
	general population, inhalative, Long-term - local effects: 7 mg/m³.

PNEC

Range [%]	Substance
12,5 - 20	Ethylene glycol, CAS: 107-21-1
	soil, 1,53 mg/kg.
	sediment (freshwater), 20,9 mg/kg.
	sewage treatment plants (STP), 199,5 mg/l.
	seawater, 1 mg/l.
	freshwater, 10 mg/l.

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection
Safety glasses.

Hand protection
The details concerned are recommendations. Please contact the glove supplier for further information.
In full contact:
Butyl rubber, >480 min (EN 374).
Neoprene, >480 min (EN 374).
Nitrile rubber, >480 min (EN 374).
In splash contact
Nitrile rubber, >120 min (EN 374).

Skin protection
Protective clothing.

Other
Avoid contact with eyes and skin.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection
No special measures necessary.

Thermal hazards
No information available.

Delimitation and monitoring of the environmental exposition
not determined

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	green
Odor	characteristic
Odour threshold	not determined
pH-value	9
pH-value [1%]	not determined
Boiling point [°C]	100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	16,49 mbar (20°C)
Density [g/ml]	1,00 (20°C)
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	>12 s (23°C) (DIN 53211)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Carbon dioxide (CO2).
Carbon monoxide (CO).
Nitrous oxides (NOx).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
12,5 - 20	Ethylene glycol, CAS: 107-21-1
	LD50, dermal, mouse: > 3500 mg/kg.
	LD50, oral, Rat: 7712 mg/kg.
	LC50, inhalative, Rat: > 2,5 mg/l 6h.
	LDLo, oral, Human: ca. 1600 mg/kg.
< 0,5	Sodium nitrite, CAS: 7632-00-0
	LD50, oral, Rat: 85-180 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

The product was classified on the basis of the calculation procedure of the preparation directive.
Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
12,5 - 20	Ethylene glycol, CAS: 107-21-1
	LC50, (96h), Pimephales promelas: 72860 mg/l.
	EC50, (96h), Selenastrum capricornutum: 6500 - 13000 mg/l.
	EC50, (48h), Daphnia magna: > 100 mg/l OECD 202.
< 0,5	Sodium nitrite, CAS: 7632-00-0
	LC50, (96h), Oncorhynchus mykiss: 0,56-1,78 mg/l.
	EC50, (72h), Scenedesmus subspicatus: >100 mg/l.
	EC50, (48h), Daphnia magna: 12,5-100 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities. Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 070108*
160507*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 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 (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	not applicable
- VOC (1999/13/CE)	0%

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 22: Harmful if swallowed.
R 25: Toxic if swallowed.
R 8: Contact with combustible material may cause fire.
R 50: Very toxic to aquatic organisms.

16.2 Hazard statements (SECTION 3)

H272 May intensify fire; oxidiser.
H400 Very toxic to aquatic life.
H301 Toxic if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H302 Harmful if swallowed.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Customs Tariff	not determined
Classification procedure	STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)

Modified position

SECTION 2 been added: P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

SECTION 2 been added: P314 Get medical advice / attention if you feel unwell.

SECTION 2 been added: P260 Do not breathe vapours.

SECTION 2 been added: H373 May cause damage to organs through prolonged or repeated exposure.