according to Regulation (EC) No 1907/2006 (REACH)

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#### SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier** 

Identification / trade name:	Art. 4732, MONIL-MINUS flüssig
REACH registration number:	not notifiable
UFI:	65PG-1CGE-2D4G-AV50

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

**Use of the substance / mixture:** Liquid concentrate to lower the pH-value

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

Supplier / Manufacturer:	HWR-CHEMIE GmbH Moosfeldstrasse 7 D-82275 Emmering
Telephone:	0049-8141-51030
Telefax:	0049-8141-510355
E-mail:	info@hwr-chemie.de
E-mail (competent person):	infoSDB@hwr-chemie.de
Information contact:	Laboratory
1.4 Emergency phone Emergency phone Germany: Emergency phone Austria:	0049-8141-51030 (only during office hours) 0043 1 406 43 43 (poison information centre)

#### **SECTION 2. Hazards identification**

#### 2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Corr. 1A, H314; Met. Corr. 1, H290

2.2 Label elements

Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Danger.

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#### Hazard components for labeling

Sulphuric acid, 50 %

#### Hazard statements

H314 Causes severe skin burns and eye damage. H290 May be corrosive to metals.

#### **Precautionary statements**

P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container at hazardous or special waste collection point.

#### 2.3 Other hazards

The substances in this mixture do not meet the PBT/vPvB criteria of REACH, annex XIII. The substances in this mixture do not have any endocrine disrupting properties.

#### **SECTION 3.** Composition / information on ingredients

#### 3.1 Substances

This product is a mixture.

#### 3.2 Mixtures

#### **Chemical characterization**

Mixture of acids in water.

#### Hazardous ingredients

50 % Sulphuric acid, EG 231-639-5, CAS 7664-93-9, Skin corr. 1A, H314; Met. Corr. 1, H290

#### Additional information

Full text of hazard classes and H-phrases: see section 16

#### **SECTION 4. First aid measures**

#### 4.1 Description of first aid measures

General informations:	In case of persistent symptoms seek medical advice. Remove contaminated clothing. In case of unconsciousness place patient into stable side position for transportation. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
In case of inhalation:	Provide affected person with fresh air and seek medical advice depending on the symptoms.
In case of skin contact:	Contaminated, soaked clothing should be immediately removed. Wash skin thoroughly with soap and water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
In case of eye contact:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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In case of ingestion:	Rinse mouth immediately and then drink plenty of water. Do not induce vomiting. Seek medical advice at once.
Additional hints:	Self-protection of the first aider: wear protective clothing, gloves and safety goggles (see Section 8).

#### 4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes may cause reddening, running eyes and smarting pain. Prolonged contact may lead to irreversible damage up to blindness. Ingestion may cause severe pain in the digestive tract. Possible burn of the upper part of gastrointestinal tract. Inhalation may cause cough and shortness of breath. Risk of pulmonary oedema.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no known specific antidote.

#### **SECTION 5. Fire-fighting measures**

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Water spray jet / foam / CO2 / dry extinguishing powder **Unsuitable extinguishing media:** Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

Spilled material reacts with certain metals (e.g. lead, aluminium, zinc and magnesium) to form hydrogen gas. In case of fire may be liberated: corrosive vapors.

#### 5.3 Advice for fire-fighters

The product itself is not flammable. Co-ordinate fire-fighting measures to the fire surroundings. Special protective equipment: Wear full protective suit with self-contained breathing apparatus.

#### **SECTION 6.** Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. Wear protection equipment.

#### 6.2 Environmental precautions

Large quantities of spills should be contained by. Do not allow to enter undiluted into surface water or drains.

#### 6.3 Methods and material for containment and cleaning up

Absorb with an absorbent material and dispose of according to local regulations. Alkalis may be used for pH neutralization.

#### 6.4 Reference to other sections

Observe protective measures in sections 8 and disposal considerations in section 13.

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#### **SECTION 7. Handling and Storage**

#### 7.1 Precautions for safe handling

#### Advices on safe handling

Wear protective clothing. Open carefully and keep container closed when not in use. General hygiene measures:

- Eating, drinking or smoking is prohibited in areas, where work is performed.
- Wash your hands after use.
- Take off contaminated clothing and protective equipment before entering eating areas.

#### Precautions against fire and explosion

Product does not burn itself.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Store only in the original container or a corrosion-resistant container. Store locked up. Storage compatibility and limitations according to TRGS 510 must be observed.

#### 7.3 Specific end uses

Observe product information sheet. eCl@ss (8.0): 30-01-02-90

#### **SECTION 8. Exposure controls / Personal protection**

#### 8.1 Control parameters

#### Workplace exposure limits according to TRGS 900

Substances: Sulfuric acid Occupational exposure limit: 0.1 mg/m<sup>3</sup> E Top limiting and exceedance factor: 1 (I) Notes: DFG, EU, Y

#### Community workplace exposure limits

Substances: Sulfuric acid EU limits (8h): 0.05 mg/m<sup>3</sup> EU limits (Short-term): -

#### 8.2 Exposure controls / Personal protection equipment

#### Appropriate engineering controls

See section 7. No additional measures necessary.

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#### Personal protection equipment

Respiratory protection:	No personal respiratory protective equipment normally required.
Hand protection:	Tested gloves with breakthrough time >= 8 hours made from NR 0.5 mm, CR 0.5 mm, NBR 0.35 mm, Butyl 0.5 mm, FKM 0.4 mm, PVC 0.5 mm
Eye protection: Protective clothing:	use safety goggles usual work clothes

#### General health and safety measures

Respect good personal hygiene. Do not drink, eat or smoke while handling.

#### **Environmental exposure controls**

See section 6 and 7.

#### **SECTION 9.** Physical and chemical properties

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

#### **General information**

Physical state:	liquid
Colour:	colourless
Odour:	odourless
pH value (undiluted):	approx. 0
pH value (1 %):	approx. 1
Melting point/Freezing point (°C):	approx45
Boiling temperature (°C):	approx. 130
Flashpoint (°C):	not applicable
Flammability (solid, gas):	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Vapour pressure (hPa):	approx. 23
Relative vapor density:	not determined
Density (20 °C):	approx. 1.4
Solubility:	completely mixable with water
Partition coefficient (KOW):	not determined
Ignition temperature:	not determined
Decomposition temperature:	not determined
Dynamic viscosity (mPas):	< 100
Particle properties:	not applicable

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#### 9.2 Other information

#### Other safety characteristics

No other physical and chemical data has been recorded.

#### **SECTION 10. Stability and Reactivity**

#### 10.1 Reactivity

Reacts with strong alkalis under intense heat development. May heat up during dilution.

#### 10.2 Chemical stability

Stable under the specified storage conditions.

#### 10.3 Possibility of hazardous reactions

There are expected no hazardous reactions for intended use.

#### 10.4 Conditions to avoid

No hazardous conditions known. Note the information about handling and storage in section 7.

#### 10.5 Incompatible materials

Avoid contact with aluminum, magnesium, tin, zinc and other base metals (hydrogen gas formation possible).

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

#### **SECTION 11. Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

The mixture does not meet the criteria for classification.

#### **Skin Corrosion / Irritation**

## Mixture is classified as corrosive to the skin.

#### Serious Eye Damage / Irritation

Mixture causes serious eye damage.

#### Sensitisation

Mixture does not contain any sensitising substances.

#### CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Mixture does not contain any substances which are classified as carcinogenic, mutagenic or toxic for reproduction.

**Specific target organ toxicity (single exposure)** Mixture does not contain any substances with specific target organ toxicity.

## Specific target organ toxicity (repeated exposure)

Mixture does not contain any substances with specific target organ toxicity.

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#### Aspiration hazard

Not classified. Mixture does not contain any hydrocarbons.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

This mixture does not contain any substances which are identified as endocrine disrupting.

#### Other information

No further data available.

#### **SECTION 12. Ecological information**

The available data refer to the substances in the mixture. The mixture as a whole has not been tested.

#### 12.1 Toxicity

This mixture does not contain any substances classified as dangerous for the environment.

#### 12.2 Persistence and degradability

Sulphuric acid Hydrolysis in water. Methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

Sulphuric acid Not expected to bioaccumulate.

#### 12.4 Mobility in soil

Sulphuric acid No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances which are identified as PBT or vPvB.

#### 12.6 Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

#### 12.7 Other adverse effects

The mixture does not contain any substances which are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

#### **SECTION 13.** Disposal considerations

#### 13.1 Waste treatment methods

#### Recommendation

Cleaning concentrates should not be disposed of via wastewater. Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations.

#### Waste codes/waste designations according to EWC

20 01 14 (Acids)

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#### Packaging

#### Contaminated package

Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations. Waste code 15 01 10 (packaging containing residues of or contaminated by hazardous substances)

#### **Cleaned package**

Non contaminated and clean packagings can be used for recycling.

#### **SECTION 14. Transport information**

**14.1 UN number or ID number** 2796

#### 14.2 UN Proper shipping name:

ADR / RID: Sulphuric acid

IMDG-Code / ICAO-TI / IATA-DGR: Sulphuric acid

#### 14.3 Transport hazard class(es)

#### ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR:

8

#### 14.4 Packing group

Ш

#### 14.5 Environmental hazards

Not classified.

#### 14.6 Special precautions for user

See section 6 and 8.

## 14.7 Maritime transport in bulk according to IMO instruments

not applicable

#### **SECTION 15.** Regulatory information

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

#### **National regulations**

Maternity Protection Act (MuSchG): not applicable. Major Accidents Ordinance (12. BImSchV): not applicable. Observe employment restrictions for young people (§ 22 JArbSchG). Water hazard class: WGK 1 (in accordance with German regulation AwSV)

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#### **15.2 Chemical Safety Assessment**

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

#### **SECTION 16.** Other information

#### Indication of changes

Revised sections: 1, 15

#### Hazard statements referred to in Section 2 and 3 i.a.w. Regulation (EC) No 1272/2008

Met. Corr. 1, H290 = Corrosive to metals, category 1, May be corrosive to metals. Skin Corr. 1A/B/C, H314 = Skin corrosion / irritation, category 1A/B/C, Causes severe skin burns and eye damage.

#### Key literature references and sources for data

REACH Regulation (EC) No. 1907/2006 CLP Regulation (EC) No. 1272/2008

All data were taken from the safety data sheets of our sub-suppliers, where available. Missing data were taken from the Substance Database GESTIS of the Institute for Occupational Safety and Health of the German statutory accident insurance or from the database of the European Chemicals Agency (ECHA).

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#### Legend

WGK Water hazard class

#### **Further information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.