

Safety Data Sheet dated 6/5/2019, version 4 This version cancels and substitutes any previous version

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

1.1. Product identifier

Mixture identification:

Trade name: DRIZZLE

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

Recommended use:

Drain tubes cleaner

1.3. Details of the supplier of the safety data sheet

Company:

ERRECOM SRL

Via Industriale, 14

Corzano (BS) Italy

Tel. +39 030/9719096

Competent person responsible for the safety data sheet:

lab@errecom.it

1.4. Emergency telephone number

+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Skin Irrit. 2, Causes skin irritation.



Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

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vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Numb | er | Classification |
|-------------------------|----------------|---|---|---|
| >= 7% - < 10% | glycolic acid | CAS: EC: | 79-14-1 201-180-5 | 2.16/1 Met. Corr. 1 H290 3.1/4/Inhal Acute Tox. 4 H332 3.2/1B Skin Corr. 1B H314 |
| >= 0.5% - < 1% | propan-2-ol | Index number: CAS: EC: REACH No.: | 603-117-00-0 67-63-0 200-661-7 01-21194575 58-25-XXXX | 2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336 |
| >= 0.05% - < 0.1% | prop-2-yn-1-ol | Index number: CAS: EC: | 603-078-00-X 107-19-7 203-471-2 | 2.6/3 Flam. Liq. 3 H226 3.2/1B Skin Corr. 1B H314 4.1/C2 Aquatic Chronic 2 H411 3.1/3/Oral Acute Tox. 3 H301 3.1/3/Dermal Acute Tox. 3 H311 3.1/3/Inhal Acute Tox. 3 H331 |
| >= 0.05% - < 0.1% | 2-aminoethanol | Index number: CAS: EC: | 603-030-00-8 141-43-5 205-483-3 | 3.2/1B Skin Corr. 1B H314 3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332 |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

After contact with skin, wash immediately with soap and plenty of water.

Wash contaminated clothing before using them.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.



In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No information available.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:



Store containers away from any incompatible materials, checking section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Information not available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters
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propan-2-ol - CAS: 67-63-0

ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

AGW - TWA(8h): 500 mg/m3, 200 ppm - STEL(15min): 1000 mg/m3, 400 ppm MAK - TWA(8h): 500 mg/m3, 200 ppm - STEL(15min): 1000 mg/m3, 400 ppm VLA - TWA(8h): 500 mg/m3, 200 ppm - STEL(15min): 1000 mg/m3, 400 ppm VLEP - STEL(15min): 980 mg/m3, 400 ppm

WEL - TWA(8h): 999 mg/m3, 400 ppm - STEL(15min): 1250 mg/m3, 500 ppm TLV - TWA(8h): 980 mg/m3, 400 ppm - STEL(15min): 1225 mg/m3, 500 ppm

NDS - TWA(8h): 900 mg/m3 - STEL(15min): 1200 mg/m3

NPHV - TWA(8h): 500 mg/m3, 200 ppm - STEL(15min): 1000 mg/m3

MV - TWA(8h): 500 mg/m3, 200 ppm

GVI - TWA(8h): 999 mg/m3, 400 ppm - STEL(15min): 1250 mg/m3, 500 ppm prop-2-yn-1-ol - CAS: 107-19-7

ACGIH - TWA(8h): 1 ppm - Notes: Skin - Eye irr, liver and kidney dam

2-aminoethanol - CAS: 141-43-5

OEL - TWA(8h): 2.5 mg/m3, 1 ppm - STEL(15min): 7.6 mg/m3, 3 ppm EU - TWA(8h): 2.5 mg/m3, 1 ppm - STEL: 7.6 mg/m3, 3 ppm - Notes: Skin

ACGIH - TWA(8h): 3 ppm - STEL: 6 ppm - Notes: Eye and skin irr

DNEL Exposure Limit Values

glycolic acid - CAS: 79-14-1

Worker Industry: 9.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 9.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 1.53 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 58 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

Consumer: 2.3 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

2-aminoethanol - CAS: 141-43-5

Worker Professional: 1 mg/kg - Consumer: 0.24 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 3.3 mg/m³ - Consumer: 2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 3.3 mg/m³ - Consumer: 2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 3.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

glycolic acid - CAS: 79-14-1

Target: Fresh Water - Value: 0.0312 mg/l Target: Marine water - Value: 0.0031 mg/l

Target: Freshwater sediments - Value: 0.115 mg/kg Target: Marine water sediments - Value: 0.0115 mg/kg



Target: Soil (agricultural) - Value: 0.007 mg/kg

2-aminoethanol - CAS: 141-43-5

Target: Fresh Water - Value: 0.085 mg/l Target: Marine water - Value: 0.0085 mg/l

Target: Freshwater sediments - Value: 0.425 mg/kg Target: Marine water sediments - Value: 0.0425 mg/kg

Target: Soil (agricultural) - Value: 0.035 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

8.2. Exposure controls

Eye protection:

Use close safety visors, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable gloves type:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material: FKM (fluoro rubber).

NR (natural rubber, natural latex).

NBR (nitrile rubber).

Material thickness: minimum 0.12 mm.

Break through time: > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

In the case of vapour formation use a respirator with an approved filter.

Mask with filter "A", brown colour

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance and colour: liquid yellow-orange

Odour: India delication in a section in a se

Odour threshold: N.A.
pH: 2,05
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density:

Flash point:

Evaporation rate:

Vapour pressure:

N.A.

N.A.

N.A.

Relative density: 1.045 g/mL (20°C)

Solubility in water: total
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A



Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

9.2. Other information

Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.
Substance Groups relevant properties N.A.

V.O.C. (w/w): N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Bases, amines, alkali metals, permanganates.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met



j) aspiration hazard Not classified Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product: glycolic acid - CAS: 79-14-1 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LC50 - Route: Inhalation Mist - Species: Rat 3.6 mg/l - Notes: (aerosol) b) skin corrosion/irritation: Test: Skin Corrosive Positive c) serious eye damage/irritation: Test: Eye Corrosive Positive d) respiratory or skin sensitisation: Test: Skin Sensitization Negative e) germ cell mutagenicity: Test: Respiratory Sensitization Negative Test: Mutagenesis Negative f) carcinogenicity: Test: Carcinogenicity Negative g) reproductive toxicity: Test: Reproductive Toxicity Negative propan-2-ol - CAS: 67-63-0 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat 4710 mg/kg Test: LD50 - Route: Skin - Species: Rat 12800 mg/kg Test: LC50 - Route: Inhalation - Species: Rat 76.2 mg/l - Duration: 4h Test: LD50 - Route: Skin - Species: Rabbit 6290 mg/kg prop-2-yn-1-ol - CAS: 107-19-7 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat 56 mg/kg Test: LC50 - Route: Inhalation - Species: Rat 0.75 mg/l - Duration: 4h Test: LD50 - Route: Skin - Species: Rabbit 88 mg/kg 2-aminoethanol - CAS: 141-43-5 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat 1510 mg/kg Test: LD50 - Route: Skin - Species: Rabbit 1000 mg/kg - Source: IUCLID b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Positive - Source: IUCLID c) serious eye damage/irritation: Test: Eye Irritant - Species: Rabbit Positive - Source: IUCLID

SECTION 12: Ecological information

e) germ cell mutagenicity:

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. DRIZZLE

Not classified for environmental hazards

Based on available data, the classification criteria are not met glycolic acid - CAS: 79-14-1

Test: Ames test Negative - Source: IUCLID

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 115 mg/l - Duration h: 96 - Notes: US EPA E 72-2 Endpoint: EC50 - Species: Daphnia 99.6 mg/l - Duration h: 48 - Notes: OECD TG 202

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Endpoint: LC50 - Species: Algae 15.3 mg/l - Duration h: 72 - Notes: OECD TG 201

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 91 mg/l Endpoint: NOEC - Species: Daphnia 71 mg/l Endpoint: NOEC - Species: Algae 14 mg/l

propan-2-ol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: EC0 - Species: Fish 10000 mg/l - Duration h: 48 - Notes: Pimephales

promelas

Endpoint: LC50 - Species: Fish > 1400 mg/l - Duration h: 96 - Notes: Lepomis

macrochirus

Endpoint: LC50 - Species: Fish 6550 mg/l - Duration h: 96 - Notes: Pimephales

promelas

2-aminoethanol - CAS: 141-43-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 150 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: LC50 - Species: Fish 2070 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Fish 349 mg/l - Duration h: 96 - Notes: Cyprinus carpio Endpoint: EC50 - Species: Daphnia 65 mg/l - Duration h: 48 - Notes: Daphnia magna Endpoint: ErC50 - Species: Algae 2.5 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 0.85 mg/l - Duration h: 504 - Notes: Daphnia magna

12.2. Persistence and degradability

glycolic acid - CAS: 79-14-1

Biodegradability: Readily biodegradable - Test: Modified Sturm Test - Notes: OECD TG 301B / 301D

2-aminoethanol - CAS: 141-43-5

Biodegradability: Readily biodegradable - Test: OECD 301 - Duration: 28 d - %: 99 -

Notes: OECD 301E

12.3. Bioaccumulative potential

glycolic acid - CAS: 79-14-1

Bioaccumulation: Not bioaccumulative

propan-2-ol - CAS: 67-63-0

Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.05

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Enviromental Pollutant: Nο IMDG-Marine pollutant: No

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

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Full text of phrases referred to in Section 3:

H290 May be corrosive to metals.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

H411 Toxic to aquatic life with long lasting effects.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

| Hazard class and hazard category | Code | Description |
|----------------------------------|--------------|--|
| Met. Corr. 1 | 2.16/1 | Substance or mixture corrosive to metals, Category 1 |
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Acute Tox. 3 | 3.1/3/Dermal | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 | 3.1/3/Inhal | Acute toxicity (inhalation), Category 3 |
| Acute Tox. 3 | 3.1/3/Oral | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 | 3.1/4/Dermal | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 | 3.1/4/Inhal | Acute toxicity (inhalation), Category 4 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Skin Corr. 1B | 3.2/1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.



ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

Acute toxicity Estimate (Mixtures) ATEmix:

Chemical Abstracts Service (division of the American Chemical CAS:

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

European Inventory of Existing Commercial Chemical Substances. **EINECS:**

Ordinance on Hazardous Substances, Germany. GefStoffVO:

Globally Harmonized System of Classification and Labeling of GHS:

Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO).

International Maritime Code for Dangerous Goods. IMDG: International Nomenclature of Cosmetic Ingredients. INCI:

KSt: Explosion coefficient.

Lethal concentration, for 50 percent of test population. LC50:

Lethal dose, for 50 percent of test population. LD50:

Predicted No Effect Concentration. PNEC:

Regulation Concerning the International Transport of Dangerous Goods RID:

by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. TLV: Threshold Limiting Value. TWA: Time-weighted average

WGK: German Water Hazard Class.