
MEGASOFT POWER 21

Safety Data Sheet dated 4/12/2020, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: Megasoft Power 21

Trade code: PT1037

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

Recommended use:

Fabric softener concentrate

1.3. Details of the supplier of the safety data sheet

Company:

Lavapiù S.r.l.

Strada di Circonvallazione, 27

39057 Appiano sulla Strada del Vino

P.I. 02636010213

Tel. 075-5279943

E-mail: remo.falchi@lavapiu.com

1.4. Emergency telephone number

Lavapiù S.r.l. – Phone: +39 075-5279943

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

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Special Provisions:

None

Contains

3,7-Dimethyloctan-3-ol: May produce an allergic reaction.

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

None

2.3. Other hazards

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. Number	Classification
>= 1% - < 2.5%	propan-2-ol; isopropyl alcohol; isopropanol	Index 603-117-00- number: 0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457 558-25-xxxx	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336
>= 0.5% - < 1%	Amyl salicylate	CAS: 2050-08-0 EC: 218-080-2 REACH No.: 01-2119969 444-27-xxxx	 3.1/4/Oral Acute Tox. 4 H302  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
>= 0.1% - < 0.25%	3,7-Dimethyloctan-3- -ol	CAS: 78-69-3 EC: 201-133-9 REACH No.: 01-2119454 788-21-xxxx	 3.2/2 Skin Irrit. 2 H315  3.4.2/1B Skin Sens. 1B H317  3.3/2 Eye Irrit. 2 H319
>= 0.1% - < 0.25%	(z)-3-hexenyl salicylate	CAS: 65405-77-8 EC: 265-745-8 REACH No.: 01-2119987	 4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1

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		320-37-xxxx	H410
200 ppm	bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	Index number: 603-085-00-8 CAS: 52-51-7 EC: 200-143-0 REACH No.: 01-2119980-938-15-xxxx	 3.1/4/Dermal Acute Tox. 4 H312  4.1/C2 Aquatic Chronic 2 H411 M=1.  3.1/3/Inhal Acute Tox. 3 H331  3.1/3/Oral Acute Tox. 3 H301  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  4.1/A1 Aquatic Acute 1 H400 M=10.  3.8/3 STOT SE 3 H335
15 ppm	methanol	Index number: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 REACH No.: 01-2119433-307-44-xxxx	 2.6/2 Flam. Liq. 2 H225  3.8/1 STOT SE 1 H370  3.1/3/Oral Acute Tox. 3 H301  3.1/3/Dermal Acute Tox. 3 H311  3.1/3/Inhal Acute Tox. 3 H331

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

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

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

None

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

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.

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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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

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

methanol - CAS: 67-56-1

EU - TWA(8h): 260 mg/m³, 200 ppm - Notes: Skin

ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Skin, BEI - Headache, eye dam, dizziness, nausea

DNEL Exposure Limit Values

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Consumer: 26 mg/kg - Exposure: Human Ingestion - Frequency: Long Term, systemic effects

Worker Industry: 500 mg/kg - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, local effects

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7

Worker Industry: 2.3 mg/kg - Consumer: 1.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 4.1 mg/m³ - Consumer: 1.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 12.3 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

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Worker Industry: 7 mg/kg - Consumer: 4.2 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
 Consumer: 0.35 - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Target: Fresh Water - Value: 140.9 mg/l

Target: Marine water - Value: 140.9 mg/l

Target: Freshwater sediments - Value: 552 mg/kg

Target: Marine water sediments - Value: 552 mg/kg

Target: Soil (agricultural) - Value: 28 mg/kg

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7

Target: Fresh Water - Value: 0.01 mg/l

Target: Marine water - Value: 0.0008 mg/l

Target: Freshwater sediments - Value: 0.041 mg/kg

Target: Marine water sediments - Value: 0.00328 mg/kg

Target: Soil (agricultural) - Value: 0.5 mg/kg

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

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

Properties	Value	Method:	Notes:
Appearance and colour:	White opaque liquid	--	--

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Odour:	Fresh	--	--
Odour threshold:	Not Relevant	--	--
pH:	3	--	--
Melting point / freezing point:	Not Applicable	--	--
Initial boiling point and boiling range:	ca. 100°C	--	--
Flash point:	Not Applicable	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Applicable	--	--
Upper/lower flammability or explosive limits:	Not Flammable	--	--
Vapour pressure:	Not Available	--	--
Vapour density:	Not Relevant	--	--
Relative density:	999 g/L	--	--
Solubility in water:	Full	--	--
Solubility in oil:	Partial	--	--
Partition coefficient (n-octanol/water):	Not Available	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	>50°C	--	--
Viscosity:	5-150 cPs	--	--
Explosive properties:	Not Explosive	--	--
Oxidizing properties:	Not oxidizing	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Full in water	--	--
Fat Solubility:	Partial	--	--
Conductivity:	Not Relevant	--	--
Substance Groups	N.A.	--	--

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relevant properties			
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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
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
N.A.
- Toxicological information of the main substances found in the product:
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 4710 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat = 12000 Ppm - Duration: 8h - Source: Femmina
 - Test: LD50 - Route: Skin - Species: Rabbit = 6290 mg/kg
 - bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 305 mg/kg - Source: Metodo OECD - linea guida 401
 - Test: LC50 - Route: Inhalation - Species: Rat = 0.588 mg/l - Duration: 4h
 - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: Metodo OECD - linea guida 402
 - b) skin corrosion/irritation:
 - Test: Skin Irritant - Species: Rabbit Positive - Source: Metodo OECD 404
 - c) serious eye damage/irritation:
 - Test: Eye Corrosive - Species: Rabbit Positive - Source: Test di Draize
 - d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Species: Pig Negative - Source: Test OECD 406

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If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

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

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: EC50 - 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

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 41.2 mg/l - Duration h: 96 - Notes:

Oncorhynchus mykiss

Endpoint: EC50 - Species: Aquatic invertebrates = 1.4 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.4 mg/l - Duration h: 72

Endpoint: CE20 - Species: Activated sludge = 2 mg/l - Duration h: 2.5 - Notes: Fanghi attivi (OECD - linea guida 209, acquatico)

b) Aquatic chronic toxicity:

Endpoint: LC50 - Species: Fish > 39.1 mg/l - Duration h: 1176 - Notes:

Oncorhynchus mykiss (Linea guida OECD 210)

Endpoint: NOEC - Species: Aquatic invertebrates = 0.27 mg/l - Duration h: 504 - Notes: Daphnia magna (OECD - linea guida 211)

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Endpoint: LC50 - Species: Aquatic invertebrates > 500 mg/kg - Duration h: 336
- Notes: Eisenia fetida (OECD - linea guida 207)

12.2. Persistence and degradability

The surfactants contained in this product comply with biodegradability criteria as laid down in regulation (EC) no. 648/2004 on detergents. All supporting data can be made available to the relevant authorities of Member States and will be provided, upon their express request or upon request of a producer of the formulation, to the aforementioned authorities

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Test: Biochemical oxygen demand - Duration: 5 days - %: 1.19-1.72

Biodegradability: Readily biodegradable - Test: Dissolved organic carbon - %: 2.23

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7

Biodegradability: 6 - Test: OECD 301B - CO2 EVOLUTION TEST - Duration: 28 days - Notes: 51-57%

12.3. Bioaccumulative potential

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Bioaccumulation: Not bioaccumulative - Test: Log Kow - Partition coefficient 0.05 - Notes: Misurato

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7

Bioaccumulation: Not bioaccumulative - Test: BIOAC03 - Notes: <3

Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor - Notes: <100

Bioaccumulation: Not bioaccumulative - Test: BIOAC03 -0.64

12.4. Mobility in soil

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Mobility in soil: High mobility - Test: Koc 1.1 - Notes: Stimato

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol - CAS: 52-51-7

Mobility in soil: High mobility - Test: Koc 0-50

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.

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SECTION 14: Transport information

- 14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
N.A.
- 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)
 - Regulation (EU) n. 2018/669 (ATP 11 CLP)
 - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 - Regulation (EU) n. 2019/521 (ATP 12 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII
Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
 - None

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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

Text of phrases referred to under heading 3:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H302 Harmful if swallowed.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H312 Harmful in contact with skin.
- H411 Toxic to aquatic life with long lasting effects.
- H331 Toxic if inhaled.
- H301 Toxic if swallowed.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H370 Causes damage to organs.
- H311 Toxic in contact with skin.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
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/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2

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Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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
Aquatic Chronic 3, H412	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
 ATEmix: Acute toxicity Estimate (Mixtures)

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CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of 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).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods 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.