

**WH\_Alkalinity Plus 5kg - 5294004**

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : WH\_Alkalinity Plus 5kg  
Product code : 5294004.  
CAS : 144-55-8

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

pH regulator for swimming pool water

**1.3. Details of the supplier of the safety data sheet**

Registered company name : BAYROL Deutschland GmbH (UK).  
Address : Robert-Koch-Straße 4.82152.Planegg.GERMANY.  
Telephone : +49 (0) 89 857 01-0. Fax : +49 (0) 89 857 01-276.  
sds@bayrol.eu  
www.bayrol.de  
Bayrol UK Limitedc/o Gowling WLG (UK) LLP6th Floor, 4 More LondonRiverside, London SE1 2AUUK Tel. +44 20 38 85 19 72

**1.4. Emergency telephone number : (+44)(0)1865407333.**

Association/Organisation : NCEC.

**Other emergency numbers**

Ireland : National Poisons Information Centre (+353)(0)18092166  
Eitrunarmiðstöð Landspítalans (Icelandic University Hospital): 00 354 543 22 22

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.  
This substance does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).  
This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

Precautionary statements - Prevention :

P262 Do not get in eyes, on skin, or on clothing.

**2.3. Other hazards**

In use, may form flammable/explosive dust-air mixture.  
The substance does not fulfil the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

**Composition :**

Identification	Classification (EC) 1272/2008	Note	%
CAS: 144-55-8 EC: 205-633-8 REACH: 01-2119457606-32-XXXX SODIUM HYDROGENCARBONATE			100.0000%

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.  
If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
In case of contact with skin wash off immediately with plenty of water.

**In the event of swallowing :**

Seek medical attention, showing the label.  
Rinse out mouth and give plenty of water to drink  
Do not induce vomiting.

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

No data available.

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

**Information for the doctor :**

Treat symptoms.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :  
- sprayed water or water mist

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.  
Do not breathe in smoke.

**5.3. Advice for firefighters**

Special protective equipment for fire-fighters      Use breathing apparatus with independent air supply. Wear full protective clothing.  
Additional information      Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Prevent any material from entering drains or waterways.

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**6.3. Methods and material for containment and cleaning up**

Retrieve the product by mechanical means (sweeping/vacuuming).

**6.4. Reference to other sections**

Safe handling: see section 7

Emergency telephone number: see section 1

Personal protection equipment: see section 8

Disposal: see section 13

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**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the substance is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the substance is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep out of reach of children.

Keep container tightly closed.

Storage stability

Storage time: 5 years.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

See section 1.2

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**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

No data available.

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard ISO 16321.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Natural latex

**- Body protection**

Work clothing worn by personnel shall be laundered regularly.

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After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Avoid inhaling dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149/A1.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical state**

Physical state : Solid.  
Form : Powder

**Colour**

White

**Odour**

Odour threshold : Not stated.  
odourless

**Melting point**

Melting point/melting range : Not specified.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not specified.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.  
Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not specified.

**Decomposition temperature**

Decomposition point/decomposition range : Not specified.

**pH**

pH : 8.00 .  
Slightly basic.  
pH (aqueous solution) : 8 à 10 g/L - 25°C

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Soluble. 95 g/L à 20°C  
Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : > 1  
Bulk density : 950 – 1300 kg/m3

**Relative vapour density**

Vapour density : Not stated.

**Particle characteristics**

The substance does not contain nanoforms.

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**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

Reactions with acids.

**10.2. Chemical stability**

This substance is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid :

- formation of dusts
- humidity

Dusts can form an explosive mixture with air.

**10.5. Incompatible materials**

Keep away from :

- acids

**10.6. Hazardous decomposition products**

No data available.

**SECTION 11 : TOXICOLOGICAL INFORMATION**

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

No data available.

**11.1.1. Substances**

**a) Acute toxicity :**

SODIUM HYDROGENCARBONATE (CAS: 144-55-8)

Oral route :

LD50 > 4000 mg/kg body weight

Species : Rat

Inhalation route (Dusts/mist) :

LC50 > 4.74 mg/l

Species : Rat

**b) Skin corrosion/skin irritation :**

SODIUM HYDROGENCARBONATE (CAS: 144-55-8)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

SODIUM HYDROGENCARBONATE (CAS: 144-55-8)

No mutagenic effect.

Mutagenesis (in vitro) :

Negative.

Ames test (in vitro) :

Negative.

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With or without metabolic activation.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

SODIUM HYDROGENCARBONATE (CAS: 144-55-8)

No toxic effect for reproduction

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2.2 Other information**

**11.2. Information on other hazards**

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**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.1. Substances**

SODIUM HYDROGENCARBONATE (CAS: 144-55-8)

Fish toxicity :

LC50 = 7100 mg/l

Species : Lepomis macrochirus

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 4100 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

NOEC > 576 mg/l

Species : Daphnia magna

Duration of exposure : 21 days

OECD Guideline 211 (Daphnia magna Reproduction Test)

**12.2. Persistence and degradability**

**12.2.1. Substances**

Inorganic product, cannot be eliminated from the water by biological purification processes.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :**

WGK 1 : Slightly hazardous for water.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number or ID number**

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**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

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**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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**14.7. Maritime transport in bulk according to IMO instruments**

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**SECTION 15 : REGULATORY INFORMATION**

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

**Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

**Container information:**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

Substance not restricted under Annex XVII of Regulation (EC) no. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

**Explosives precursors :**

The substance is not subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

**Particular provisions :**

No data available.

**Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):**

The substance is not a persistent organic pollutant.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :**

WGK 1 : Slightly hazardous for water.

**15.2. Chemical safety assessment**

No data available.

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**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.