

**DG Alkal Control**

Acc. to: 1907/2006/EG, 2015/830]  
Issue, dated: 21.12.2018  
Version EN:1.0;

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

**1.1 Product identifier:** DG Alkal Control

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

Identified uses / uses advised against: Mixture. Water treatment agent for neutralizing acidic solutions.

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

**Distributor:** Duo Ghibli  
ul. Światowida 6  
71-726 Szczecin  
Tel.: +48 606 362 590

E-mail address of the person responsible for data sheet: [biuro@dgpc.pl](mailto:biuro@dgpc.pl)

**1.4 Emergency telephone number:** 112 (general emergency telephone number), 998 (fire-brigade), 999 (ambulance);

**SECTION 2: Hazards identification**

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

Acc. to 1272/2008

**Skin Corr. 1B; H314**

**Eye Dam.1; H318**

**Human health dangers:**

Causes severe skin burns and eye damage

**Environmental hazards:**

None.

**Physic-chemical hazards:**

None.

**2.2 Label elements:**

**Pictograms:**



**Signal Word:** Danger

**Hazard Statement:**

**H290** May be corrosive to metals.

**H314** Causes severe skin burns and eye damage

**Precautionary Statement:**

**P260** Do not breathe dust/fume/gas/mist/vapours/spray.

**P264** Wash exposed skin thoroughly after handling

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

**P234** Keep only in original packaging.

**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

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**P310** Immediately call a POISON CENTER/doctor/physician/first aider.**P363** Wash contaminated clothing before reuse.**P390** Absorb spillage to prevent material damage.**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P405** – Store locked up.**P501** Dispose of contents/container in accordance with local regulations.**2.3 Other hazards:**

Mixture doesn't meet the criteria for PBT or vPvB

**SECTION 3: Composition/information on ingredients****3.1 Substances:**

Not applicable.

**3.2 Mixtures:**

Hazardous components:

Product identifier	Contains [%]	Classification	
		Hazard Class and Category Code(s)	Hazard Statement Code(s)
Sodium Hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6 REACH No.: 01-2119457892-27- XXXX	18 -25	Acute Tox. 4 (Dermal), Skin Corr. 1A, Serious Eye Dam. 1, Aquatic Acute 3,	H312 H314 H318 H402

Additional information: For full text of H-statements: see SECTION 16

**SECTION 4: First aid measures****4.1 Description of first aid measures:****Skin contact:**

Remove immediately all contaminated clothing, wash affected skin with soap and water, rinse thoroughly with water. Immediately call a POISON CENTER or doctor/physician. Transport to hospital, or doctor.

**Eye contact:**

Rinse cautiously for several minutes (about 15) with plenty of water, holding eyelids apart. Remove contact lenses, if present and easy to do. Avoid strong stream, due to the risk of corneal damage. Continue rinsing. Immediately call a POISON CENTER or doctor/physician..

**Inhalation:**

Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:**

Do not induce vomiting, rinse your mouth with water, immediately contact your doctor.

**4.2 Most important symptoms and effects, both acute and delayed:****Skin contact:** Causes severe skin burns.**Eye contact:** Causes serious eye damage.**Respiratory:** May cause respiratory irritation, cough, shortness of breath, difficulty breathing.**Gastrointestinal tract:** Ingestion may cause irritation of the mucous membranes of mouth, gastrointestinal tract, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, headaches and dizziness - symptoms of food poisoning**Symptoms/injuries upon intravenous administration :** Not available.**Chronic symptoms :** Not available.**4.3 Indication of any immediate medical attention and special treatment needed:**

Obtain medical assistance.

**SECTION 5: Firefighting measures**

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### 5.1. Extinguishing media:

**Suitable extinguishing media:** foam, sand, dry powder extinguishers, CO<sub>2</sub>, water spray. Use appropriate extinguishing method for conditions.

**Unsuitable extinguishing media:** Water with full jet

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

**Fire hazard** : Not flammable.

**Explosion hazard** : Not available.

**Reactivity** : Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). Thermal decomposition generates : Corrosive vapours.

### 5.3 Advice for firefighters:

Cool containers with water spray, if possible remove from the danger zone. In the event of a fire in a confined space should wear protective clothing and breathing apparatus with compressed air. In case of fire: stop leak if safe to do so. Do not allow fire-fighting water run-off into surface water, groundwater and sewer.

## SECTION 6: Accidental release measures

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

**6.1.1. For non-emergency personnel:** notify the appropriate service. Remove from the hazardous area who does not participate in liquidation of failure.

**6.1.2 For emergency responders:** Ensure adequate ventilation. Use proper personal protective equipment. Do not breathe vapors. Stop leak if safe to do so.

### 6.2 Environmental precautions

Prevent from spreading or escaping into drains and reservoirs. Inform local authorities if you fail to provide protection.

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

Prevent leakage and absorb with inert, absorbent material (such as sand, earth, vermiculite, diatomaceous earth, etc.). The contaminated material is placed in properly labeled containers for disposal in accordance with applicable regulations.

### 6.4 Reference to other sections

Disposal considerations – see section 13.

Personal precautions – see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

**Additional hazards when processed** : May be corrosive to metals.

**Precautions for safe handling:** Use in well ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors. Avoid sources of ignition, heat, hot surfaces and open flames. Work in accordance with the principles of safety and hygiene: Do not eat, drink and smoke at work, wash your hands after use, remove contaminated clothing and protective equipment before entering places for meals. Follow the instructions provided on the label and instructions for use.

**Hygiene measures** : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

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

Store in a cool (storage temperature 5-30°C), dry, well ventilated place in properly labeled and tightly closed original container. Avoid direct sunlight and heat sources, hot surfaces and open flames. KEEP SUBSTANCE AWAY FROM: (strong) acids. metals. metal powders.

### 7.3 Specific end use(s):

No additional information available

## SECTION 8: Exposure controls/personal protection

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**8.1 Control parameters:**
Occupational Exposure Limits (PL):

Sodium hydroxide:

 NDS 0,5 mg/m<sup>3</sup>

 NDSC 1 mg/m<sup>3</sup>
**8.2 Exposure controls**

**Appropriate engineering controls:** It is recommended to use proper ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Individual protection measures, such as personal protective equipment:**

Gloves. Safety glasses. Protective clothing. Head/neck protection. Avoid all unnecessary exposure.



**Hand/Feet protection :** Wear chemically resistant protective gloves and boots.

**Eye/Face protection :** Chemical goggles or face shield. Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes. These afford face protection.

**Skin and body protection :** Wear suitable protective clothing.

**Respiratory protection :** In case of inadequate ventilation wear respiratory protection. Wear appropriate mask.

**Thermal hazard protection :** None necessary.

**Other information :** Do not eat, drink or smoke during use.

**Environmental exposure controls:**

Prevent the spread in the environment and enter drains and watercourses.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties:**

Appearance	Liquid
Color	clear. colorless
Odour	Odorless
Odour threshold	not determined
pH	≥ 14
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability	not determined
Lower flammability or explosive limits	not determined
Upper flammability or explosive limits	not determined
Vapour pressure	not determined

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Vapour density	not determined
Density at 20°C	1,18 – 1,30 g/cm <sup>3</sup>
Solubility(ies)	In water: completely soluble
Partition coefficient: n-octanol/water	not determined
Self-ignition temperature	not self-igniting
Decomposition temperature	not determined
Viscosity, kinematic	2.8 cSt
Explosive properties	not determined
Oxidizing properties	not determined

**9.2 Other information:**

No additional information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). Thermal decomposition generates : Corrosive vapours..

**10.2 Chemical stability:**

Stable under normal conditions of use, storage and transport.

**10.3 Possibility of hazardous reactions**

Exothermically reacts with strong oxidizers acids.

**10.4 Conditions to avoid:**

Avoid direct sunlight, heat, open flames, extremely high or low temperatures.

**10.5 Incompatible materials:**

Strong acids, strong oxidizing agents, light metals.

**10.6 Hazardous decomposition products:**

Sodium oxide. Thermal decomposition generates : Corrosive vapours.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects:**

Acute toxicity: Not classified

Sodium hydroxide 20% w/v

LD50 (oral, rat) 50 mg/kg

LD50 (dermal, rabbit) 1350 mg/kg

**Skin corrosion/irritation** : Causes severe skin burns and eye damage. Sodium hydroxide burns are not immediately painful; onset of pain may be delayed minutes or hours; thus care should be taken to avoid contamination of gloves and boots.

**Serious eye damage/irritation** : Causes serious eye damage. pH: ≥ 14

**Respiratory or skin sensitisation** : Not classified

**Germ cell mutagenicity** : Not classified Based on available data, the classification criteria are not met

**Carcinogenicity** : Not classified

**Reproductive toxicity** : Not classified Based on available data, the classification criteria are not met

**Specific target organ toxicity (single exposure)** : Not classified

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**Specific target organ toxicity (repeated exposure)** : Not classified Based on available data, the classification criteria are not met

Aspiration hazard : Not classified Based on available data, the classification criteria are not met

**Potential Adverse human health effects and symptoms** : Based on available data, the classification criteria are not met.

**Symptoms/injuries after inhalation** : Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

**Symptoms/injuries after skin contact** : Caustic burns/corrosion of the skin.

**Symptoms/injuries after eye contact** : Causes serious eye damage.

**Symptoms/injuries after ingestion** : Abdominal pain. Bleeding of the gastrointestinal tract. Burns to the gastric/intestinal mucosa. Nausea. Possible esophageal perforation.

**Symptoms/injuries upon intravenous administration** : Not available.

**Chronic symptoms** : Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

**SECTION 12: Ecological information****12.1 Toxicity:**

**Ecology - general** : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Sodium Hydroxide, 20% w/v**

LC50 fishes - 1 269 mg/l

EC50 Daphnia - 1 239 mg/l

**Sodium Hydroxide (1310-73-2)**

LC50 fishes - 1 45.4 mg/l (96 h; *Salmo gairdneri* (*Oncorhynchus mykiss*); SOLUTION  $\geq 50\%$ )

EC50 Daphnia - 1 40.4 mg/l (48 h; *Ceriodaphnia* sp.; NOMINAL CONCENTRATION)

LC50 fish 2 - 189 mg/l (48 h; *Leuciscus idus*)

TLM fish 1 - 99 mg/l (48 h; *Lepomis macrochirus*)

TLM fish 2 - 125 ppm (96 h; *Gambusia affinis*)

**12.2. Persistence and degradability**

Sodium Hydroxide, 20% w/v

Persistence and degradability Not established.

Sodium Hydroxide (1310-73-2)

Persistence and degradability Biodegradability: not applicable. No (test)data on mobility of the substance available.

Biochemical oxygen demand (BOD) Not applicable

Chemical oxygen demand (COD) Not applicable

ThOD Not applicable

BOD (% of ThOD) Not applicable

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil:**

No information available.

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

No information available.

**12.6 Other adverse effects:**

No information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Disposal of waste should be addressed by specialized companies, the manner of waste disposal to be agreed with the competent department of environmental terrain. The residue was stored in their original containers. Dispose of in accordance with applicable regulations.

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Empty containers should be disposed of in accordance with applicable regulations or to provide to the appropriate landfill.

**EU REGULATIONS**

Directive 75/442/EEC on waste, Council Directive 91/689/EEC of 12 December 1991 on hazardous waste, Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste

**SECTION 14: Transport information****Labels Required**

**14.1 UN number:** 1824

**14.2 UN proper shipping name:** SODIUM HYDROXIDE SOLUTION

**14.3 Transport hazard class(es):** 8

**14.4 Packing group:** II

**14.5 Environmental hazards:** Not Applicable

**14.6 Special precautions for user:**

Hazard identification (Kemler): 80

Classification code: C5

Hazard Label: 8

Special provisions: Not Applicable

Limited quantity: 1 L

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** No information available

**SECTION 15: Regulatory information**

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

**EU REGULATIONS:**

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).
4. Commission Directive 2006/8/EC of 23 January 2006 amending, for the purposes of their adaptation to technical progress, Annexes II, III and V to Directive 1999/45/EC of the European Parliament and of the Council concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations (Text with EEA relevance).

**15.2 Chemical safety assessment:** No chemical safety assessments for the mixture.



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**SECTION 16: Other information**

**Abbreviations and acronyms, list of hazard statements used in the safety data sheet:**

**H302** – Harmful if swallowed  
**H312** – Harmful in contact with skin  
**H314** – Causes severe skin burns and eye damage  
**H315** – Causes skin irritation  
**H318** – Causes serious eye damage  
**H319** – Causes serious eye irritation  
**H332** – Harmful if inhaled.  
**H351** – Suspected of causing cancer  
**Acute Tox.4** – Acute toxicity cat. 4  
**Crac. 2** – Carcinogenicity cat. 2  
**Skin Corr. 1A** – Skin corrosion cat. 1B  
**Skin Irrit.2** – Skin irritation cat. 2  
**Eye Dam.1** – Serious eye damage cat. 1  
**Eye Irrit.2** – Eye irritation cat. 2  
**LD50** – Lethal dose, 50 percent  
**PBT** – Persistent, Bioaccumulative and Toxic  
**vPvB** – very Persistent and very Bioaccumulative  
**ADR** – European Agreement concerning the International Carriage of Dangerous Goods by Road  
**RID** – Regulation Concerning the International Transport of Dangerous Goods by Rail  
**IMDG** – International Maritime Code for Dangerous Goods  
**IATA** – International Air Transport Association

**SAFETY ADVICE**

S01 Keep locked up.  
S02 Keep out of reach of children.  
S04 Keep away from living quarters.

**Training:**

This product can be used by workers who have been thoroughly trained in the method of use of this product, they have been informed about the hazardous properties of the product and of the conditions of safe use of this product.

Method of classification: calculation method

**RESOURCES**

Annex to Regulation (EU) 2015/830.  
Current legislation (Section 15).  
Information Agency for Chemical Substances.

The information contained herein should be considered only as an aid for the safe use of DG Alkal Control. Since the conditions of storage, transport and use are beyond our control, can not constitute a guarantee in the legal sense. In any case, you must observe the laws and any third party rights. The document does not estimate the risks in the workplace. Product should not be used for purposes other than those specified in Section 1 without first consulting with **Duo Ghibli**.