

Revision date: 14.09.2023

Version ENG: 1.0

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

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

1.1 Product identifier: DG Mud & Silt Dispersant

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

Identified use: Polymer-based product for the controlling of sediment accumulation in ballast tanks .

Uses advised against: Not identified

1.3 Details of the supplier of the safety data sheet:

Supplier: Duo Ghibli
ul. Światowida 6
71-726 Szczecin
Phone number: +48 606 362 590

E-mail address of the person responsible for the material safety data sheet: biuro@dgpc.pl

1.4 Emergency telephone number: 81 535 22 22 between 8 a.m. and 4 p.m.
112 (generally available emergency number), 998 (fire brigade), 999 (ambulance);

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements)

2.2 Label elements:

Signal words: none

Hazard phrases

Not applicable

Precautionary Phrases

Not applicable

2.3 Other hazards:

No data on whether or not the product complies with PBT or vPvB regulations according to Annex XIII of REACH.

Odour: Strong smell of hydrogen chloride

Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Mixtures:

Hazardous ingredients:

Product identifier	Content %	Classification according to 67/548/EC	CLP classification	
			Hazard class and category codes	Codes of phrases describing the natures of hazard
Nonionic Polyacrylamide CAS nr: 9003-05-8 EC nr: Not applicable	<5	none	-	-

SECTION 4: First aid measures

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4.1 Description of first aid measures**Following skin contact:**

Remove contaminated clothing. Use soap to clean contaminated skin. Rinse the skin immediately using fresh water. If symptoms persist, seek medical assistance.

Following eye contact:

Promptly wash eyes with fresh water for several minutes with your eyes open wide. Avoid strong water jet, as it might damage the cornea. If symptoms persist, seek medical attention.

Following inhalation:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Following ingestion:

Do not induce vomiting. Rinse mouth thoroughly. Give water or milk to drink. Get medical attention if any discomfort continues.

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

Respiratory system: inhalation of concentrated vapours may lead tiredness and irritation.

Vapours or aerosols may cause irritation of eyes, nose and respiratory tract.

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

Treat symptomatically. A decision about any future medical intervention should be made by a doctor once he/she has assessed the exposed person's condition.

SECTION 5: Firefighting measures**5.1 Extinguishing media:****Suitable extinguishing media:**

Product is not flammable. Use methods appropriate for the surrounding fire.

Unsuitable extinguishing media:

Strong water jet.

5.2 Special hazards arising from the substance or mixture:

Smoke from fires can be irritating.

5.3 Advice for firefighters:

Use a dispersed water jet to keep fire exposed containers cool and if safe to do so, remove containers from path of fire. In case of fire in confined spaces, wear special protective clothing and self-contained breathing apparatus. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures

6.2 Environmental precautions:

No special precautions are required for this product.

6.3 Methods and material for containment and cleaning up:

Flush spill area with copious amounts of water.

6.4 Reference to other sections

None

SECTION 7: Handling and storage**7.1 Precautions for safe handling:**

Work in line with the general occupational safety and hygiene regulations: do not eat, drink and smoke in work areas, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated store room, in tightly sealed properly labeled original container. Avoid heat sources and direct sunlight. Avoid contact with open fire and hot surfaces.

7.3 Specific end use(s): Polymer-based product for the controlling of sediment accumulation in ballast tanks .

SECTION 8: Exposure controls/personal protection

8.1 CONTROL PARAMETERS:

There are no recommended or established controls for this product

8.2 Exposure controls:

No special precautions are required for this product.

8.3 Occupational exposure controls

Wear suitable protective clothing, including eye/face protection and plastic or rubber gloves.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Pale yellow
Odour	Odourless
Odour threshold	Not identified
pH	7-8
Melting point / freezing point	-1 °C
Initial boiling point and boiling range	100°C
Flash point	Not identified
Burning temperature	Not identified
Evaporation rate	Not identified
Flammability (solid, gas)	Not identified
Lower flammability or explosive limits	Not identified
Upper flammability or explosive limits	Not identified
Vapour pressure at 20°C	Not identified
Relative vapour density	Not identified
Density at 20 °C	1.02 g/cm ³

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Solubility(ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not identified
Auto-ignition temperature	It does not self-ignite
Decomposition temperature	Not identified
Dynamic viscosity at 22°C	Not identified
Kinematic viscosity	Not identified
Explosive properties	Not identified
Particle Characterization: Median particle size	Not identified

9.2 Other information:

No additional test data.

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

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability:

The product is stable under normal conditions of use, storage, and transportation.

10.3 Possibility of hazardous reactions:

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to avoid:

Avoid high temperature, direct sunlight, hot surfaces and contact with open fire. Keep away from frost.

10.5 Hazardous decomposition products:

No hazardous decomposition products known.

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

	TOXICITY	IRRITATION
Nonionic Polyacrylamide	Oral (mouse) LD50: 12950 mg/kg[2] Oral (rabbit) LD50: 11250 mg/kg[2] Oral (rat) LD50: >2000 mg/kg[2]	Eye: slight

Product has no effects in humans

11.2 Contact with eyes :

In cases of severe exposure, redness may develop

11.3 Contact with skin:

In cases of severe exposure, redness and irritation may develop

11.4 Ingestion:

In cases of severe exposure, gastro-intestinal disturbances may develop

11.5 Inhalation:

Vapours or aerosols may cause irritation of eyes, nose and respiratory tract

11.6. Endocrine disrupting properties:

The product does not contain ingredients included in the list established in accordance with Art. 59 section 1 as having endocrine disrupting properties or ingredients with disrupting properties functioning of the endocrine system in accordance with the criteria set out in the Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration $\geq 0.1\%$ (w/w).

11.7. Other informations:

No additional information.

SECTION 12: Ecological information

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12.1 Toxicity:

LC50 (fish) (Polycarboxylate) >2500 mg/l (96 hr)

Biodegradability. OECD-test. 28 days <60% (Polycarboxylate)

This product does not contain ingredients which are classified in the EU as dangerous for the environment

12.2 Persistence and degradability:

Most components in this product are not readily biodegradable.

12.3 Bioaccumulative potential:

Nonionic Polyacrylamide.

Mobility
LOW (KOC = 10.46)**12.4 Mobility in soil:**

No data available.

12.5 Results of PBT and vPvB assessment:

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%..

12.6 Endocrine disrupting properties.

The product does not contain ingredients included in the list established in accordance with Art. 59 section 1 as having endocrine disrupting properties or ingredients with disrupting properties

functioning of the endocrine system in accordance with the criteria set out in the Commission Delegated Regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 in a concentration $\geq 0.1\%$ (w/w).**12.7 Other harmful effects.**

No known significant effects or critical hazards..

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

Utilization of waste and disposable containers will be handed over to specialised companies and the methods of utilization should be discussed with the locally applicable environment department. Wastes should be stored in original containers. Empty containers should be utilised in compliance with the requirements of environmental protection legislation or transferred to a suitable landfill site.

Environment Minister Order of 27 September 2001 on Waste Catalogue (Journal of Laws No. 112, item 1206).

Directive of the Council 75/442/EEC on waste, Directive of the Council 91/689/EEC on hazardous waste, Decision of the Commission 2000/532/EC of 3rd May, 2000 providing a European List of Wastes, pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (OJ L 226, 6.9.2000, p. 3).

SECTION 14: Transport Information**14.1 UN number:** Not applicable**14.2 UN proper shipping name:** Not applicable**14.3 Transport hazard class(es):** Not applicable**14.4 Packing group:** Not applicable**14.5 Environmental hazards:** Not applicable**14.6 Special precautions for user:** Not applicable**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable**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)

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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.

SECTION 16: Other information**Abbreviations and acronyms, list of hazard statements used in the safety data sheet:**

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

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 Mud & Silt Dispersant**. 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 Szczecin**.

