Safety Data Sheet

According to Regulation (EC) No 453/2010

Elaboration date: 20.07.2018
Update date: ……

Edition 1

Section 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier	**ATLAS MYKOS PLUS**
1.2 Relevant identified uses of the mixture and uses advised against	Fungicide and algaecide concentrated agent, for conservation and protection of stoneware, masonry construction or construction materials other than timber e.g. walls surface, building façade including thermal insulation systems, renders, concrete, lime stone etc. *Detailed information concerning the use, properties and instruction for use of the agent are listed in the technical data sheet/product catalogue.* *The usage not listed in the ATLAS Sp. z o. o. documents should be previously consulted with a company representative.*
1.3 Details of the supplier of the Safety Data Sheet	**ATLAS Sp. z o.o.** **Św. Teresy 105, 91-222 Łódź, Poland** telephone: +48 42 631 89 45 fax: +48 42 631 89 46 **Person responsible for the Safety Data Sheet:** msds@atlas.com.pl
1.4 Emergency telephone number	112 – alarm number for mobiles and land line phones 998 – fire service 997 – police 042 631 47 24 National Toxicology Center 022 618 77 10 Toxicological Information

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture	Pictogram: **GHS 07, GHS 09** Warning word: **Warning** Contains: alkyl-(C_{12-16})- dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) 2-octyl-2H-isothiasol-3-one (OIT). **Aquatic Chronic 1 H410** Very toxic to aquatic life with long-lasting effects **Skin Irrit. 2 H315** Causes skin irritation **Eye Irrit. 2 H319** Causes serious eye irritation **Skin Sens. 1 H317** May cause an allergic skin reaction

2.2 Label elements	**P102** *Keep out of reach of children* **P273** *Avoid release to the environment.* **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.* **P391** *Collect spillage.* **P501** *Dispose of contents/container to authorized companies* **EUH 208** *Contains 2-octyl-2H-isothiasol-3-one. May produce an allergic reaction.* ***LABEL:***  Contains: alkyl-(C12-16)- dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) 2-octyl-2H-isothiasol-3-one (OIT). **Warning** Very toxic to aquatic life with long-lasting effects Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Keep out of reach of children Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Collect spillage. Dispose of contents/container to authorized companies Contains 2-octyl-2H-isothiasol-3-one. May produce an allergic reaction.
2.3 Other hazards	According to Annex XIII of REACH Regulation on PBT and vPvB, the mixture does not meet the criteria for PBT and vPvB.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances	Not applicable
3.1 Mixture	Mixture of biocides

3.2.1a Dangerous compounds

Name	Registration no	Content [%]	Classification and labelling (see section 16)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS: 68424-85-1 EC: 270-325-2	1.0-3.0	GHS 05 Skin Corr. 1B, H314; GHS 05 Eye Dam. 1, H318 GHS 09 Aquatic Acute 1, H400 (M=10); GHS 09 Aquatic Chronic 1,H410 (M=1) GHS 07 Acute Tox. 4, H302
2-octyl-2H-isothiazol-3-one	CAS: 26530-20-1 EC: 247-761-7 Index: 613-112-00-5	0.1 – 1.0	GHS 06 Acute Tox. 3, H311; GHS 06 Acute Tox. 3, H331 GHS 05 Skin Corr. 1B, H314; GHS 05 Eye Dam. 1, H318 GHS 09 Aquatic Acute 1, H400 (M=10); GHS 09 Aquatic Chronic 1,H410 (M=1) GHS 07 Acute Tox. 4, H302; GHS 07 Skin Sens. 1A, H317

	Diethylene glycol	CAS: 111-46-6 EC: 203-872-2 Index: 603140-00-6 Registration.: 012119457857-21	5-10	GHS STOT RE 2, GHS 08, H373 GHS 07 Acute Tox. 4, H302

3.2.1b Substances with specific highest allowed concentration at workplace according to EU	None
3.2.1c Persistent, bioaccumulable and toxic substances or very persistent and with strong ability to bioaccumulate substances	According to Annex XIII of REACH Regulation on PBT and vPvB, the mixture does not meet the criteria for PBT and vPvB.
Other information	• For the classification of the product the actual content of hazardous ingredients was used. • Shelf life period in conditions as listed in Section 7 is 24 months from the manufacturing date shown on the packaging. • The marketing authorization number of the biocidal product 7371/18

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures	**After inhalation:** Move injured person to fresh air and observe, in case of breathing difficulties, dizziness, nausea or loss of consciousness get medical assistance immediately. In case of inhibition of breathing apply assisted ventilation or artificial respiration. Make sure if the rescuers are equipped with breathing apparatus to protect of being affected by fumes. **After skin contact:** Remove contaminated clothing and footwear. Rinse the place exposed to mixture action with water within min. 10 minutes. If there is any substance trace left continue rinsing within further 10 minutes. In case of prolonged irritation symptoms get medical assistance. **After contact with eyes:** IF IN EYES: Rinse immediately with plenty of water within min. 15 minutes, keep the eyes wide open during rinsing. Remove any contact lenses. Contact an eye specialist. **After ingestion:** IF SWALLOWED: wash mouth. DO NOT induce vomiting. Get immediate medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Avoid ready mixture contact with skin, eyes or respiratory tract. Follow remarks concerning safety and use shown on the label. Immediately remove product from skin, eyes and mucosae, which allows to prevent any delayed exposure effects.
4.3 Indication of any immediate medical attention and special treatment needed	In case of any symptoms of concern get medical assistance immediately, show safety data sheet, packaging or label. Do not let the substance harden, wash immediately. In case of contact with eyes or mucosae medical consultation is recommended. Access to running water is recommended. Use protective creams in case of repeated or long term contact with skin. Product may produce an allergic reaction

Section 5. FIREFIGHTING MEASURES

Each employee should ask information concerning fire hazard at his worksite and closest environment. Worksite should be kept in due order. Flammable products must not be kept close to electrical devices, heaters and other sources of fire.
In case of fire one should immediately, by all means, alarm people in the risk zone and call fire service (see: section 1.4) giving information essential for firefighting commencement (give the event site – full address, what is burning or what type of threat occurs, is there threat for human life, telephone number from which one is alarming as well as name and surname).
Next, using local extinguishing media, start firefighting and help people at risk, if necessary, start evacuation of people and property. These actions should be executed so that there is no start of panic, which can seize people at risk caused by fire and smoke. Panic can lead to unwanted and taking their toll accidents during rescue and firefighting actions. That is why when carrying any actions in case of fire one should give careful consideration when taking a decision. Until fire service comes the action is led by a particularly appointed person. Remember to protect the airway from smoke by using damp cloths and to move in bottom parts of rooms of high smoke level.

5.1 Extinguishing media	**Suitable extinguishing media:** Foam, dry powder, carbon dioxide, water – spray stream. Firefighting measures should be tailored to the surroundings. **Unsuitable extinguishing media:** Do not use water in full stream.
5.2 Special hazards arising from the mixture	Dangerous gases (CO, CO_2, SO_2, NO_x) can form in case of fire. In specific burning conditions, other dangerous substances can form.
5.3 Advice for firefighters	One should wear full set of protective clothing and individual breathing apparatus. Do not lead water from firefighting into aquatic environment. Use water stream to cool surfaces exposed to fire action.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	**For persons not belonging to staff applying aid:** One should estimate situation, make sure if there is no further danger to any people nearby (victims, ones applying aid, etc.), if needed, secure the incident site and call for help. In case of lack of danger to human life and health, one should commence actions leading to limitation of product penetration to environment and commence cleaning works. **For persons applying help:** One should check if a victim responds to stimulus. If the victim is unconscious, immediately open the airway by gently tilting the head back and gently lifting the chin forward. Check if the person breaths (feel for the person's breath on your cheek). - If the victim breaths normally place the person in the recovery position and check one's breath regularly. - If the victim does not breath start the cardiopulmonary resuscitation (CPR): Place the heel of one hand over the center of the person's chest, between the nipples. Place your other hand on top of the first hand. Keep your elbows straight, and push straight down on (compress) the chest at least 2 inches (approximately 5 centimeters). Push hard at a rate of about 100 compressions a minute. After 30 chest compressions, open the person's airway and give two rescue breaths (pinch the nostrils, open the mouth keeping the chin lifted and, after taking deep breath, tightly sealing victim's mouth, blow air into lungs). If the victim's chest does not rise one should examine the mouth to make sure no foreign material occluding the airway is inside, remove it immediately, and check if the head is tilted enough and chin lifted. Continue chest compressions and rescue breaths in ratio 30:2 until emergency personnel take over or the victim starts breathing by oneself. If at incident site there is none available to give rescue breaths, then provide chest compressions only. In case of choking one should encourage the victim to cough, and in case of serious choking bend the victim forward and give up to 5 blows between the shoulder blades with the heel of your hand.
6.2 Environmental precautions	Product is harmful to the aquatic life, cannot get through to the water reservoir. Counter release of greater volume of material into environment.
6.3 Methods and material for containment and cleaning up	Greater amounts should be collected into special container. Residues should be covered with absorbent, stirred and collected mechanically. Suitable absorbent: multi-purpose resin (label: V) Avoid forming dust, sweep thoroughly the floor. Guidelines concerning spilled material disposal shown in section 13. Decontamination procedure: Quartenary compounds has cationic character and are incompatible with anionic compounds, e.g. non-ionic surfactants. If released into the sewage, leakage should be collected into container. Solution of sodium lauryl sulphate should be prepared (in double concentration in relation to content of active substance in sewage) and mixted in 1:1 ratio. Contaminated surfaces can be cleaned with 10% solution of sodium lauryl sulphate. Guidelines concerning spilled material disposal shown in section 13.
6.4 Reference to other sections	Individual protection measures: section 8 Waste treatment: section 13

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid contact with a mixture. Prevent penetration to the environment. Do not eat and drink during work. Wash hands after use. Remove contaminated clothing and protective measures before entering places designated for eating. Act cautious while pouring, avoid splashing. Ensure good airing in area of working.
7.2 Conditions for safe storage, including any incompatibilities	Keep in cool, dry, well ventiled room in sealed original and labelled packages. Avoid direct sunlight, heat sources, hot surfaces and open fire. Storage temperature: from +10°C up to +30°C. Protect from freezing. Product should be stirred before use. Protect from leakage and penetration into the environment by, among others, proper shape of collection vassel and by control of pouring process. While maintaining conditions above, no adverse reactions known.
7.3 Specific end uses	Use in accordance to occupational health and safety regulations. Provide proper ventilation, especially in closed rooms. Detailed information concerning the use, properties and instruction for use of the mortar are listed in the technical data sheet/product catalogue. The usage not listed in the ATLAS Sp. z o. o. documents should be previously consulted with a company representative.

Section 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters	In case of occurrence in the mixture of ingredients listed in section 3.2.1 according to **Minister of Labour and Social Policy Regulation** of 6 June 2014 concerning maximum allowable concentration and intensity of health harmful factors at workplace (Dz.U.2014 no 0 pos.817), monitoring at workplace is obligatory.
• **TLV and STEL**	111-46-6 diethylene glycol, TLV 10 mg/m^3 inhalable fraction
• **MABC**	Not applicable
• **monitoring**	**Minister of Health Regulation** of 2 February 2011 on testing and measurement of health harmful factors at workplace (Dz.U. 2011 No 33 pos. 166)
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Provide proper room ventilation during work with mixture and individual protection measures. Provide access to running water and do not allow to wash hands with water from a bucket used for tools washing.
8.2.2 Individual protection measures	
• **respiratory protection**	Respiratory tract protection while working with highly concentrated product. Filter A/P2 (DIN/EN 141)
• **hand protection**	Working clothes with long sleeves and legs with proper protection preventing the material from getting underneath. Waterproof, long working footwear. It is advisable to use the clothing and footwear chemically resistant to this mixture. Hand protection: In case of possibility of contact with the product use protective gloves (breakthrough time above 480 min. according to PN-EN 375 standard). Wear protective gloves on clean hands only. After taking the gloves off wash and dry hands thoroughly. Protective creams for hands recommended. Used or defective gloves should be immediately replaced with new ones. Do not use protective gloves for longer period of time than necessary. Use cleaning and skin protection agents after gloves use. **Gloves material:** Nitrile rubber **Penetration time for material of the gloves:** Thickness: 0,4 mm, breakthrough time: 480 min, material: nitrile, penetration: level 6 **Incompatible material for gloves:** Leather
• **eye/face protection**	Eye protection – protective goggles protecting against sprays of chemical substances (meeting the standard EN 166).
• **skin protection**	Not required
8.2.3 Environmental exposure control	
Avoid contamination outflows, watercourses and soil.	

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical	**Appearance:** colourless liquid **Odour:** slight

properties	**Odour treshold:** no data available **pH:** 4.0 – 6.0 **Melting point / freezing point:** not applicable **Initial boiling point and boiling range:** above 100ºC **Flash point:** not applicable **Evaporation rate:** not applicable **Flammability:** non-flammable **Upper / lower flammability or explosive limits:** not applicable **Vapour pressure:** 23 mbar (H_2O) **Vapour density:** not known **Relative density:** 1.0 – 1.1 g/cm^3 **Solubility:** in commercial form soluble in water **Partition coefficient: n – octanol/water:** not applicable **Auto – ignitron temperature:** not tested **Decomposition temperature:** not applicable **Viscosity:** not applicable **Explosive properties:** not applicable **Oxidising properties:** not applicable
9.2 Other information	Not applicable

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity	Danger resulting from mixture reactivity has not been identified.
10.2 Chemical stability	Product cannot be diluted or mixed with other chemicals in order to avoid its negative impact on active substances in the product. No decomposition while using according to intended use.
10.3 Possibility of hazardous reactions	None known for storage, use and without mixing with other products or substances.
10.4 Conditions to avoid	High temperatures
10.5 Incompatible materials	Oxidants, anionic substances
10.6 Hazardous decomposition products	Mixture does not decompose in ambient temperatures.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	Acute toxicity – based on available data, classification criteria are not fulfilled. Relevant classified values: LD/LC50: Ingestion ATE mix > 5000 mg/kg (calculated) On skin ATE mix > 5000 mg/kg (calculated) Inhalation ATE mix > 5 mg/l 4h (calculated) On skin: Causes skin irritation In eyed: Causes eye irritation Allergic: contains 2-octyl-2H-isothiasol-3-one. May produce an allergic reaction. Test result: • 26530-20-1 2-octyl-2H-isothiazol-3-one Sensitiveness OECD 429 (LLNA) sensitizing (Mouse) • 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Sensitiveness OECD 406 (MKA) non-sensitizing (Guinea pig) (OECD 406) S480 Germ cell mutagenicity: On the basis of data available the classification criteria not met. Carcinogenicity: On the basis of data available the classification criteria not met. Reproductive toxicity: On the basis of data available the classification criteria not met. Specific target organ toxicity (single exposure): On the basis of data available the classification criteria not met. Specific target organ toxicity (repeated exposure): On the basis of data available the classification criteria not met. Aspiration toxicity: On the basis of data available the classification criteria not met.
Routes of entry:	

• **respiratory**	On the basis of data available the classification criteria not met.
• **digestive**	Direct exposure is unlikely, secondary exposure is possible during vomiting. No toxic dose has been established. In case of swallowing, get medical advice.
• **skin**	On the basis of data available the classification criteria not met.
• **eyes**	On the basis of data available the classification criteria not met.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity	**Aquatic environment:** NOECm 0,08 mg/l (Algae) L(E)C50m 3,2 mg/l (Algae) **Evaluation:** Very toxic for aquatic life. Very toxic for aquatic life with long lasting effect. **Toxicity in organisms of activated sludge:** 26530-20-1 2-octyl-2H-isothiazol-3-one EC20 / 0.5 h 10,4 mg/l (Sewage organisms) (TTC-Test (8901 Macherey-Nagel)) EC20 / 3 h 7,3 mg/l (Sewage organisms) (OECD 209) 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides EC20 / 0.5 h 5 mg/l (Sewage organisms) (OECD 209) **Evaluation:** Depending on concentration possibly toxic to living organisms in activated sludge.
12.2 Persistence and degradability	**Biodegradation:** - 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides OECD 301 D Closed-Bottle-Test > 70 % (Sewage organisms) (OECD 301 D) S 472 - 26530-20-1 2-octyl-2H-isothiazol-3-one OECD 309 Simulation Biodegradation - Surface Water 0,6 - 1,4 d (half-life) (OECD 309) rapidly biodegradable; S 635 **Evaluation:** Compounds are easily biodegradable. **Action in sewage treatment plants:** 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl,chlorides OECD 303 A: Activated Sludge Units > 90 % (Sewage organisms) (HPLC) rapid biodegradable, S 1272 (Consortium) **26530-20-1 2-octyl-2H-isothiasol-3-one** OECD 303 A: Activated Sludge Units > 83 % (Sewage organisms) (OECD 303 A) S 313 **Evaluation:** Substance is biodegradable in active sedimentary section
12.3 Bioaccumulative potential	**BCF/LogKow:** 26530-20-1 2-octyl-2H-isothiazol-3-one OECD 117 Log Kow (HPLC method) 2,92 (n-Octanol/Wasser) (OECD 117) S 323 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl,chlorides OECD 107 Log Kow (shake flask method) 2,88 (n-Octanol/Wasser) (OECD 107) S 2522 **Evaluation:** Does not get accumulated in living organisms
12.4 Mobility in soil	No relevant data available.
12.5 Results of PBT and vPvB assessment	PBT: This mixture does not consist substances which are fulfiling REACH Annex XIII, criteria PBT vPvB: This mixture does not consist substances which are fulfiling REACH Annex XIII, criteria vPvB
12.6 Other adverse effects	No other negative impact on environment are expected.
12.7 Additional information	Heavy metals and its compounds according to Regulation 2016/11EC: None Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (Water Framework Directive- WFD); Product does not consist any of priority substances according to WFD, which would require water monitoring. Adsorbable Organic Halides (AOX):

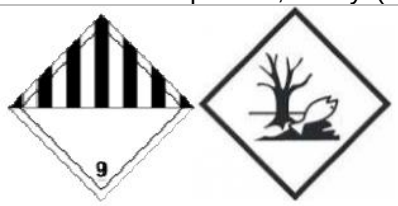
	According to recipe, does not contain any substances that may have impact on AOX value for sewage water.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste safe treatment:	It must be subjected to special treatment in accordance with official regulations. Relevant disposal processes according to 2008/98/EC on waste: D 10 If possible, recycle and return to circulation. Recommended cleaning agent: Water, optionally with addition of cleaning agent, if needed. Do not dispose to the environment with sewage or water. Product waste should not contaminate soil or water. Recycling or disposal of waste product should be according to current regulations (Waste Act of 14 December 2012 (Dz.U. 2013 no 0 pos. 21)).
Packaging waste treatment:	Follow rules of Act on packaging and packaging waste of 13 June 2013 (Dz.U.2013 no.0 pos.888). After cleaning or material processing packaging can be used again. Empty any packaging contaminated with dangerous preparation. May be recycled after thoroughly and proper cleaning.
Waste code:	Product: 16 03 05 (*Wastes not otherwise specified in the list - Organic wastes containing hazardous substances*) Packaging: 15 01 02 (*Packaging waste – Plastic packaging*)

Section 14. TRANSPORT INFORMATION

14.1 UN number	ADR, IMDG, IATA UN3082
14.2 UN proper shopping name	**ADR** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides), **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides), MARINE POLLUTANT **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides
14.3 Transport hazard classes	 ADR - Class 9 (M6) Miscellaneous dangerous substances and articles - Label 9 IMDG, IATA - Class 9 Miscellaneous dangerous substances and articles
14.4 Packing group	**ADR, IMDG, IATA III**
14.5 Environmental hazards	Marine pollutant: Yes Symbol (fishes and trees): **Specific labelling (ADR):** Symbol (fishes and trees) **Specific labelling (IATA):** Symbol (fishes and trees)
14.6 Special precautions for user	Caution: Miscellaneous dangerous substances and articles - **Kemler code:** 90 - **EMS number:** F-A, S-F Follow rules of Act of 1 July 2005 on amendment of act on carriage of dangerous goods by road and on amendment of some other acts (Dz.U. 2005 No 141 pos. 1184) with further changes.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable Transport/further information: **ADR** Limited quantities (LQ): 5L

	Excluded quantities (EQ) Code: E1 Maximum netto amount per internal container: 30 ml Maximum netto amount per external container: 1000 ml Transport category 3 Barring code for carriage through tunnels: E **IMDG** Limited quantities (LQ): 5L Excluded quantities (EQ) Code: E1 Maximum netto amount per internal container: 30 ml Maximum netto amount per external container: 1000 ml **IATA** Comments: Packing Instruction/Maximum container weight: Passenger plane: 964 / 450 L; Transport plane: 964 / 450 L UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides), 9, III

Section 15. REGULATORY INFORMATION

15.1 Safety, health and environment regulations/ legislation specific for the mixture

• **Legal acts on the classification and labelling of packaging of substances and mixtures classification**	Phrases indicating hazard type and qualifying conditions of safe use of hazardous mixture according to **Regulation (EC)** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (*see: Section 2.1 and 2.2*).
• **Other legal acts**	- **Act** on chemical substances and their mixtures of 25 February 2011 (Dz.U.2011 no.63 pos.322) with all further changes, - **Regulation (EC)** No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning 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 with further changes - **Commission Regulation (EU)** No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) - **Minister of Health Regulation** of 30 December 2004 on occupational health and safety related to occurrence of chemical factors at workplace (Dz.U.2005 No 11 pos. 86) with further changes - **Minister of Economy Regulation** of 21 December 2005 on fundamental requirements for individual protection measures (Dz.U.2005 No 259 pos. 2173) - **Government Declaration** of 24 September 2002 on coming into effect of amendments to Appendix A and B to European Agreement concerning International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 (Dz.U.2002 No 194 pos.1629) with further changes - **Act** of 20 April 2004 on amendment and repealing of some acts in relation to gaining the European Union membership by the Republic of Poland (Dz.U.2004 No 96 pos. 959) - **Minister of Economy, Labour and Social Policy Regulation** of 26 September 1997 on general occupational health and safety rules (Dz.U.1997 No 129 pos. 844) with further changes - **Minister of the Environment Regulation** of 9 December 2014 on waste catalogue (Dz.U.2014 No 0 pos.1923) - **Minister of Economy Regulation** of 29 January 2013 on the regulations on manufacturing, turnover or application of hazardous substances and mixtures and introduction into turnover or application of substances which contain hazardous

	substances or mixtures (Dz. U. 2013 no. 0 pos. 1314) - **Minister of Economy Regulation** of 10 October 2013 on the application of limits mentioned in appendix XVII, regulation no 1907/2006 (Dz. U. 2013 no 0 pos. 1314) - **Commission Directive** 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Official Journal L 142 , 16/06/2000 P. 0047 – 0050) - **Commission Directive** 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC (Official Journal L 38, 9.2.2006) - **Commission Directive** 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC (Official Journal L 38, 19.12.2009)
16.2. Chemical Safety Assesment	Chemical Safety Assesment has not been carried out.

Section 16. OTHER INFORMATION

List of H - phrases	• **H302** Harmful if swallowed • **H311** Toxic in contact with skin • **H314** Causes severe skin burns and eye damage • **H317** May cause an allergic skin reaction • **H318** Causes serious eye damage • **H331** Toxic if inhaled • **H373** May cause damage to organs through prolonged or repeated exposure • **H400** Very toxic to aquatic life • **H410** Very toxic to aquatic life with long-lasting effects *Symbols and phrases above refer to hazards caused by pure substances listed in point 3. They do not refer to mixture.*
List of abbreviations and acronyms	**CAS No** – Chemical Abstract Service number **PBT** – Persistent, Bioaccumulative, and Toxic **vPvB** – very Persistent very Bioaccumulative **EC No** – number assigned to a chemical substance in the European Inventory of Existing Chemical Substances, or number assigned to a substance in the European List of Notified Chemical Substances, or number in the list of chemical substances provided in the "No-longer polymers" publication. **REACH regulation** – Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals. **CMR substance/mixture** – carcinogenic, mutagenic or toxic for reproduction substance/mixture. **ADR** – international agreement concerning the carriage of dangerous goods by road **TLV** – Threshold Limit Value **STEL** – Short – term Exposure Limit. **GHS** – Globally Harmonized System of Classification and Labelling of Chemicals **CLP** – Regulation aligning the GHS system **MABC** – Maximum Allowable Biological Concentration **GHS07, GHS05 –** pictograms GHS according to appendix V to CLP **IMDG**: International Maritime Code for Dangerous Goods **IATA**: International Air Transport Association **EINECS**: European Inventory of Existing Commercial Chemical Substances **ELINCS**: European List of Notified Chemical Substances **LC50**: Lethal concentration, 50 percent **LD50**: Lethal dosage, 50 percent Acute Tox. 4: Acute Toxicity – Category 4

	Acute Tox. 3: Acute Toxicity – Category 3 Skin Corr. 1B: Corrosive/Irritating on skin – Category 1B Eye Dam. 1: Serious eye damage/Eye irritation – Category 1 Skin Sens. 1A: Skin sensitization – Category 1A Aquatic Acute 1: Harmful for aquatic life – Acute danger for aquatic life– Category 1 Aquatic Chronic 1: Harmful for aquatic life with long lasting effects – Category 1 Aquatic Chronic 3: Harmful for aquatic life with long lasting effects – Category 3
Training advice	Not applicable
Limitations of use	Not applicable
Other	• Mixture reported to Chemical Substances Supervisor. • When working with material one should mind dangers such as sprains, especially of back, arms and shoulders as a result of lifting and handling of bags with mortar, mortar mixtures, etc. Over the long term, frequent lifting of heavy items by workpeople can result in serious spine injuries. • Safety Data Sheet elaborated in ATLAS Sp. z o.o. • According to definition of the Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, product is a mixture and is not subject to registration in REACH system. • According to Regulation (EC) No. 1272/2008 of the European Parliament and the Council, after 01 June 2015 mixtures are classified, labelled and packed according to CLP Regulation listed above. • According to Regulation (EC) No. 1272/2008 of the European Parliament and the Council, mixtures placed on the market before 01 June 2015 and holding old classification, stay on the market until 01 June 2017 with appropriate safety data sheet.
Key literature basing on which this safety data sheet has been prepared	The information on this data sheet reflects the currently available knowledge and has been gathered with regard to safety requirements, simultaneously not guaranteeing product properties. The data sheet does not release the user from applying the legislation, administrative and product rules, occupational health and safety rules. In elaboration of the data sheet the Center for Construction Research and Training and ECA (European Cement Association - Cembureau) library was used.
Indication of changes in case of an update	Changes in the safety data sheet in relation to the previous edition marked in the text with this mark: