



## Material Safety data sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended  
by Commission Regulation (EU) 2015/830 - Europe

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Trade name:	<b>KUTRIHES</b>				
Article number:	924100	Revision date:	14.11.2017.	Version no:	01

### 1. IDENTIFICATION OF PRODUCT AND MANUFACTURER

1.1.	Product identifier	
	Trade name:	<b>KUTRIHES</b>
	Chemical name:	-
	Article number:	-
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
	Application:	additive for cement to achieve high early strength
	Used :	Optimal dosing is 0,18% of cement weight
	Not used:	-
1.3.	Details of the supplier of the safety data sheet	
	Manufacturer/Supplier:	KUTRILIN d.o.o.
	Address:	Radnička cesta 173 p, 10000 Zagreb, Croatia
	Phone number:	+385(1) 64 60 272
	Fax number:	+385(1) 24 04 554
	e-mail person responsible for MSDS:	<a href="mailto:bozo.pranjic@kutrilin.hr">bozo.pranjic@kutrilin.hr</a>
	Contact:	-
1.4.	Emergency phone number	
	Phone number:	112
	Phone number for medical information:	01-23-48-342
	Other information:	-

### 2. HAZARDS IDENTIFICATION

2.1.	Classification of the substance or mixture	
2.1.1.	Classification according to Regulation (EC) No. 1272/2008	
	-	
2.1.2.	Other information:	
2.2.	Classification according to Regulation (EC) No. 1272/2008	
	Identification :	<b>KUTRIHES</b>
	Index number:	-
	Hazard symbol:	-
	Signal word:	-
	Risk phrases:	-
	Safety phrases:	-
2.3.	Other hazards:	Not applicable

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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### Chemical characterization: mixture

Identification name	CAS/EC No.	Reg. No. (Reach)	%	Classification according to: (EC)1272/2008 (CLP)
	102-71-6/ 203-049-8/- 31	01-2119486482-	<10 -	

### 4. First aid measures

4.1.	Description of first aid measures	
	General information:	
	After inhalation:	Evacuate victim to fresh air.
	After skin contact:	Immediately remove contaminated clothing and shoes, and flush the skin surface with water (15-20 minutes). In case of burs seek medical attention.
	After eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes. Open the eyelids with clean fingers and rotate the eyeballs to allow the water to reach all the parts of the eye. In case of severe redness consult your ophthalmologist.
	After swallowing:	Rinse your mouth with water and spit it out. Drink two to three glasses of water. Rest and DO NOT INDUCE vomiting! Put the injured person in semi-lying position and then transport to a hospital.
	Remark for person/doctor administering first aid:	Take this document with you when transporting the poisoned person to a hospital.

### 5. FIREFIGHTING MEASURES

5.1.	Extinguishing media	
	Suitable extinguishing agents:	Not-flammable product; CO <sub>2</sub> , powder or water spray
	SHOULD NOT BE USED:	Streams of water
5.2.	Special hazard arising from the substance or mixture:	
	Not significant	
5.3.	Advice for fire-fighters:	
	Self-contained breathing apparatus with open, compressed air orifice and fireproof clothing.	
5.4.	Other information	
	Not significant	

### 6. ACCIDENTAL RELEASE MEASURES

6.1.	Personal precautions, protective equipment and emergency procedures
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	Wear protective equipment. Keep unprotected persons away.
6.2.	Environmental precautions:
	Dilute with plenty of water. Do not allow to enter sewers surface or ground water.
6.3.	Methods and material for containment and cleaning up
	Absorb with liquid-binding materials (sand, diatomite, universal binders). Use neutralizing agent. Dispose contaminated material as waste according to item 13.
6.4.	Reference to other sections
	See Sections 7, 8, 13

## 7. HANDLING AND STORAGE

7.1.	Handling	
7.1.1.	Precaution measures:	
	Use the product under adequate ventilation conditions due to the possibility of formation of fine fog or aerosol.	
7.1.2.	Instructions for safe handling:	
	Do not smoke, eat or drink in the area with hazardous substance. Do not inhale vapours. Avoid contact with skin or eyes.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Conditions for safe storage:	In original, well-closed containers, dry areas.
	Suitable material for receptacles:	Original container of the manufacturer, PVC, PE, PP
	Requirements to be met by storerooms and receptacles:	Do not store together with oxidizing and acidic materials. Store away from flammable substances.
	Unsuitable materials for receptacles:	Copper/alloys, Zinc, Aluminium, light metals
	Other information:	Decanting in any other type of containers is not allowed.
7.3.	Specific conditions	
		Protect from heat and direct sunlight. Protect from freezing.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1.	Control parameters			
	Substances	CAS no.	Limit values	
			Short term value	
			ppm	mg/m <sup>3</sup>
	-	-	-	-
Exposure controls: No further relevant information available				
8.2.	Personal protective equipment			
8.2.1.	Personal protective			

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	Eye protection:	Tightly sealed goggles
	Protection of hand:	Protective gloves ( rubber)
	Body protection:	Protective work clothing
	Respiratory protection:	Suitable respiratory protective device recommended.

8.2.2.	Ecological control	
		Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

	Appearance	Value	Method
	Form:	Liquid	
	Colour:	brown	
	Odour ( odour threshold):	Characteristic	
	pH (5% in water)	app. 8,5	ISO 4316
	Melting point:	app. 0	
	Boiling point:	Not determined	
	Flash point:	Not determined	
	Decomposition temperature:	Not determined	
	Self-igniting:	Product is not self-igniting	
	Danger of explosion:	Product does not present an explosion hazard	
	Explosion limits: Lower Upper	Not determined	
	Vapour pressure	Not determined	
	Density at 20°C, g/cm <sup>3</sup> :	app. 1,150	DIN 51757
	Vapour density:	Not determined	
	Evaporation date:	Not determined	
	Segregation coefficient (n-octanol/water) (log Pow):	Not determined	
	Viscosity Dynamic, at 20°C, mPas cinematic:	Not determined	
	Solubility in / miscibility with water at 20°C:	soluble	

#### 9.2. Other information

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	No further relevant information available
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### 10. STABILITY AND REACTIVITY

10.1.	Reactivity:	-
10.2.	Chemical stability:	Reacts with strong acids. Reacts with oxidizing agents.
10.3.	Possibility of hazardous reactions:	In case of fire formation of toxic fumes is possible Nitrogen oxides (NO <sub>x</sub> ).
10.4.	Conditions to avoid :	Protect against heating up/over heating and freezing.
10.5.	Incompatible materials:	Bases, light metals
10.6.	Hazardous decomposition products:	In case of fire, formation of carbon oxides possible.

### 11. TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects	
11.2.	Acute toxicity:	
	- oral (LD 50):	Not determined
	- dermal contact(LD50):	Not determined
	- inhalation (LC50):	Not determined
11.3.	Chronic toxicity or long-term exposure:	
	- on the eye(LD50):	Not determined
	-on the skin (LC50):	Not determined
	-on the mouth (LD50):	Not determined
11.4.	Primary irritant effects:	
	On the skin :	not significant
	On the eye:	not significant
	After inhalation:	not significant
11.5.	Sensitization	
	Contact with skin:	Not determined
	After inhalation:	Not determined
11.6.	Additional information:	
		Not determined
11.7.	Other toxicological information	
	Carcinogenic effects	Not determined
	Mutagenic effects <i>in-vitro</i> :	Not determined
	Genetic – toxicological effects:	Not determined
	Mutagenic effects <i>in-vivo</i> :	Not determined
	Mutagenic effect on reproductive:	Not determined

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	Reproductive effects:	Not determined
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11.8.	Other information:

### 12. ECOLOGICAL INFORMATION

12.1.	Toxicity
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	Aquatic toxicity	Not determined
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	Organisms in the ground:	Not determined
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	- Plants and animal life:	Not determined
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12.2.	Persistence and degradability
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	Biodegradability:	Readily biodegradable according to OECD criteria (literature data).
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	- Other degradability:	Not determined
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	- Degradability in waste water: Not determined
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12.3.	Bio-accumulative potential
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	(BCF) Not determined
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12.4.	Mobility in soil
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	Not determined
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12.5.	Result of PBT and vPvB assessment
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	-Not applicable
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12.6.	Other danger effects
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	Not determined
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### 13. DISPOSAL CONSIDERATIONS

13.1.	Waste treatment methods
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Must not be disposed together with household garbage. Do not allow product to reach sewage system.

13.1.1.	European waste catalogue (EWC)
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Waste code: 07 01 99; Wastes not otherwise specified

13.2.	Un-cleaned packaging:
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Disposal must be made according to official regulations.

13.3.	Recommended cleansing agents:
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Water, if necessary together with cleansing agents.

13.4.	Other adverse effects
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No further relevant information available.

### 14. TRANSPORT INFORMATION

	ADR/RID class : NOT REGULATION
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UN Number:	-
UN proper shipping name	-
Danger code ( Kemler):	-
Packaging group:	-
Ecological danger:	-
Special regulation for user:	-
Special identification of means of transportation:	

### 15. REGULATORY INFORMATION

15.1.	Chemical Safety assessment	
	EU Directive	
	Other EU Directives:	Directive (EC) No. 1906/2007 and Directive (EC) No. 1272/2008 Directive (EU) No. 453/2006 Directive (EC) No. 1907/2006 (REACH) Directive (EC) No. 2037/2000 Directive (EC) No. 689/2008 Directive (EC) No. 850/2004 Directive (EC) No. 98/2008 Directive (EC) No. 13/1998
	Local regulations:	Law on Chemicals and relevant Regulations on Classification and Labelling of Chemicals Regulations on Workplace Hazardous Materials Exposure Limits and Biological Limits, Law on waste disposal, Regulations on types of waste, Regulations on packing waste handling and Directive for handling of hazardous waste.
15.2.	Chemical Safety Assessment	
	A Chemical Safety Assessment has not been carried out.	

### 16. OTHER INFORMATION

16.1.	Modification to the Edition <b>01:</b>	New form in accordance with Regulations on preparation of SDS
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16.2.	Abbreviations and acronyms:	CAS	Chemical Abstracts Service
		EINECS	European Inventory of Existing Commercial Chemical Substances
		ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
		RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
		LD <sub>50</sub>	Lethal dose, 50%
		LC <sub>50</sub>	Lethal concentrations, 50%
16.3.	Sources	Literature value	
16.4.	Classification according CLP		
	Classification according CLP:		
16.5.	Relevant phrases		
	-		
16.6.	Other information:	Data are based on current knowledge and relevant to the supplied product. During use follow instructions printed on the label of product package units.	