



# SAFETY DATA SHEET

In accordance with the Global Harmonized System requirements.

## Alcamizer P93-2 Aluminium-Magnesium-Zinc- Carbonate-Hydroxide-(Hydrate)

### 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

#### 1.1 Product identifier

Trade name:	Alcamizer P93-2
Chemical name of the main active ingredient:	Aluminium-Magnesium-Zinc- Carbonate-Hydroxide-(Hydrate)
INDEX number of the main active ingredient as listed in annex VI of EU-CLP:	030-012-00-1
EC and CAS number of the main active ingredient:	423-570-6 169314-88-9
EU-REACH/CLP reference number of the main/active ingredient:	01-0000017006-79-0002

#### 1.2 Relevant identified uses of the mixture and uses advised against

Uses:	Stabilizer in the polymer industry
Uses advised against:	None identified

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer:	Kyowa Chemical Industry Co. Ltd. 4035 Hayashida-cho, Sakaide Kagawa 762-0012, Japan
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Manufacturer/representative, in the EU:	Kisuma Chemicals B.V. P.O. Box 400 9640 AK Veendam The Netherlands Tel no: +31(0)598 666766 e-mail: REACH@kisuma.com
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Contact outside the EU:	reach@kisuma.com
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1.4 Emergency telephone number	Tel: +31(0)598 666766 (09:00 – 17:00, C.E.T)
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### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the mixture

According to the ECHA/RAC, the main active ingredient (EC 423-570-6) is classified in accordance with GHS/Regulation (EC) No 1272/2008 5th ATP on classification, labelling and packaging (CLP) of substances and mixtures amending and repealing Directive 67/548/ECC and 1999/45/EC. The mixture should have the classification Aquatic Chronic 4 (H413).

Hazard statements:	H413	May cause long lasting harmful effects to aquatic life
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#### 2.2 Label elements

The mixture has classification/labeling requirements according to criteria GHS/ Regulation (EC) No 1272/2008 (CLP).

#### Hazard pictogram:

Signal word:	-	
Hazard statements:	H413	May cause long lasting harmful effects to aquatic life
Precautionary statements:	P273	Avoid release to the environment.
	P501	Dispose of contents/container to authorized waste handling in accordance to national regulations.

#### 2.3 Other hazards

PBT/PvB criteria	Not applicable since the main active ingredient is inorganic
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/mixture:** According to the REACH Regulation the product is a mixture

**Information about components:** According to the ECHA/RAC, the main active ingredient (EC 423-570-6) should in accordance with GHS/Regulation (EC) No 1272/2008 (CLP) and have a classification.

Chemical name:	EC No. Cas No.	GHS/CLP: Pictogram	GHS/CLP: Hazard statements	Concentration
Aluminium- Magnesium-Zinc- Carbonate-Hydroxide- hydrate	423-570-6 169314-88-9	-	H413	> 97%
Fatty acids	-	-	-	<3%

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

**Eye contact:** Immediately wash eyes with plenty of running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical advice if irritation develops and persists.

**Skin contact:** Wash affected skin area with plenty of water and soap thoroughly while removing contaminated clothing and shoes. Seek medical advice if irritation develops and persists.

**Ingestion:** Seek medical advice if the victim feels unwell. Wash out mouth with plenty of water and give 2-4 cupfuls of water or milk to drink. Never give anything by mouth to an unconscious person. Induce vomiting.

**Inhalation:** Remove the victim from exposure into fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice if cough or other symptoms appear.

#### 4.2 Most important symptoms and effect

**Acute effects** None identified

**Delayed effects** None identified

**4.3 Indication of any immediate medical attention and special treatment needed** None identified

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable:** Foam, dry powder, carbon dioxide, water mist.

**Not suitable:** Not known

**5.2 Special hazards arising from the mixture** Under fire situation, this material may generate COx

**5.3 Advice for firefighter** In the event of fire, wear a self-contained breathing apparatus and a chemical protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel  
Wear appropriate personal protective equipment (see section 8) during cleaning. Avoid contact with eyes and skin. Avoid inhalation.  
Avoid dust formation.

#### 6.2 Environmental precautions

Prevent the material from entering surface water or sanitary sewer system. Do not discharge directly to a water source. If accidental spillage or washings enter drains or watercourses contact local Environment Agency.

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

Sweep up into suitable containers for recovery or disposal.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling



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**Technical measures/ Precautions:** Good ventilation (local exhaust) of the working area, safety showers and eye wash station near the workplace. Wear personal protective equipment (see section 8).

**General occupation hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering eating areas.

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

**Technical measures / storage conditions:** Store under dry conditions.

**Incompatible products:** None known

**Packaging material:** Store the product in bags, car silos, container,.

**7.3 Specific end use(s)** None known

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

**Exposure limit values:** No Substance specific (inter)national regulations/recommendations  
Japan.  
Recommendation of Occupational Exposure Limits (OELs)(2007):  
Respirable dust - 2mg/m3, Total - 8mg/m3 (JSOH)  
USA  
Particulates Not Otherwise Regulated (PNOR): 5 mg/m3 Respirable Dust Level (OSHA)  
Particulates Not Otherwise Specified (PNOS): 3 mg/m3 Respirable Dust Level (ACGIH)  
Germany  
General Dust Limit (ASG)  
Respirable fraction (A-dust): 3 mg/m3 (8 hr average)  
Inhalable fraction (E-dust) : 4 mg/m3 (Yearly average)  
Netherlands  
Indicative values fon non-specific dust:  
Tgg (8h)= 5 mg/m3 (respirable fraction)  
Tgg (8h)= 10 mg/m3 (inhalable fraction)  
Consult your local authorities for general valid (non substance specific) acceptable exposure recommendations/limits.

### Recommended occupational and consumer exposure limit values:

Exposure pattern	Derived No Effect Level (DNEL)	
	Workers	General population
Long-term – dermal, systemic effects	139 mg/kg bw/day	83 mg/kg bw/day
Long-term – inhalation, systemic effects	245 mg/m3	72 mg/m3
Long-term – oral, systemic effects	Not relevant	8.3 mg/kg bw/day

### 8.2 Exposure controls:

**Appropriate engineering controls:** Keep exposure to a minium

**Environmental exposure controls:** Wear appropriate personal protective equipment. Avoid contact with eyes and skin. Avoid inhalation. Local exhaust ventilation of the working area.

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

**Respiratory protection:** NIOSH approved.

**Hand protection:** Chemical-resistant gloves.  
Suitable material: Neoprene/nitrile rubber/ rubber  
Breakthrough time: not determined.

**Eye protection:** Safety goggles where splashing is possible.

**Skin and body protection:** Normal overall

**Hygiene measures:** Wash hands and face before breaks and immediately after handling the product. When using, do not eat, drink, or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties for the active ingredient in the mixture

\*Information on basic physical and chemical properties from the read-across substance Aluminium-Magnesium-Carbonate-Hydroxide-Perchlorate (hydrate) (EC 422-150-1)

**Appearance:** White Powder



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<b>Odour:</b>	Not determined.
<b>pH:</b>	~ 8 (saturation concentration in water)
<b>Melting/Boiling temperature:</b>	Decomposition > 150°C (EC A.1) *(Read-Across))
<b>Evaporation rate:</b>	Not determined.
<b>Flammability:</b>	Not flammable (EC A.10) *(Read-Across)
<b>Explosive properties:</b>	Not explosive (EC A.14, based on structure).
<b>Oxidizing properties:</b>	Not oxidizing (EC A.17, based on structure)
<b>Vapour pressure:</b>	0.7 Pa at 20°C (EC A.4, static technique). *(Read-Across)
<b>Relative Density (D4(20)):</b>	2.42 (OECD 109, EC A.3; gas comparison pycnometer).
<b>Water solubility:</b>	< 2.8 mg/l at 20°C (EC A.6). The water solubility based on Al, Mg and Zn separately was 0.13, 2.80 and < 0.08 mg/l, respectively.
<b>Particle size distribution:</b>	
<b>Partition coefficient n-octanol/water:</b>	n-octanol solubility: <0.47 mg/l. The n-octanol solubility based on Al, Mg and Zn separately was <0.47, <0.11 and < 0.08 mg/l, resp. The log Kow could not be determined by test or calculated from the solubility's.
<b>Decomposition temperature</b>	Decomposition > 150°C (EC A.1) *(Read-Across)
<b>Self heating:</b>	
<b>Auto ignition temperature:</b>	No self-ignition is expected up to 400°C (EC A.16). *(Read-Across)
<b>Surface tension:</b>	74.4 mN/m at 20.0°C (90% saturation concentration in water) (EC A.5: ring method). *(Read-Across)

**9.2 Other information** None known

### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Reactive with acids.
<b>10.2 Chemical stability:</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reaction:</b>	None known
<b>10.4 Conditions to avoid:</b>	Temperatures > 300 °C.
<b>10.5 Incompatible materials</b>	Acids; pH < 1.
<b>10.6 Hazardous decomposition products</b>	Hazardous decomposition will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effect for the main, active ingredient in the mixture

##### ACUTE TOXICITY

<b>Acute oral toxicity:</b>	LD50 (rat): > 2000 mg/kg (EC B.1 tris)
<b>Acute dermal toxicity:</b>	Not available
<b>Acute inhalation toxicity:</b>	LC50 (rat): >5.17 mg/l (EC B.2)

##### LOCAL

<b>Skin corrosion / Irritation</b>	Not corrosive, not irritating to the skin (rabbit) (EC B.4).
<b>Serious eye damage / eye irritation</b>	Not irritating to the eyes (rabbit) (EC B.5).
<b>Skin sensitization:</b>	No sensitization by skin contact (guinea pig)(EC B.6).

##### OTHER

<b>Sub-acute toxicity:</b>	28-day oral gavage (rat): NOAEL: 1000 mg/kg bw/day (EC B.7).
<b>Germ cell mutagenicity:</b>	Bacterial reverse mutation test (S. typhimurium): not mutagenic (EC B.13/14; Ames test). In vitro Mammalian Chromosome aberration (human lymphocytes): not clastogenic (EC



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<b>Reproductive toxicity:</b>	B.10) In vitro Gene mutation (L5178Y/TK+/- mouse lymphoma cells) not mutagenic (EC B.17). Fertility: NOAEL = 468.75 mg/kg bw/day (proposed NOAEL calculated from a NOAEL for Zn). Developmental toxicity: NOAEL = 122.64 mg/kg bw/day (proposed NOAEL calculated from a NOAEL for Al). Teratogenicity: NOAEL = 122.64 mg/kg bw/day (proposed NOAEL calculated from a NOAEL for Al).
<b>Carcinogenicity:</b>	Negative (based on Zn and Al).
<b>STOT-single exposure:</b>	None known
<b>STOT-repeated exposure:</b>	None known
<b>OTHER INFORMATION</b>	
<b>Immunology:</b>	Negative (based on Al and Mg).
<b>Neurotoxicity:</b>	NOAEL = 200 mg/kg bw/day (proposed NOAEL calculated from a NOAEL for Al).
<b>Lung absorption:</b>	Possible absorption in the lungs, however no adverse effects on lung capacity in workers have been observed.
<b>Chronic toxicity:</b>	NOAEL = 6.48 mg/kg bw/day (proposed NOAEL calculated from a NOAEL for Zn).

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION GIVEN IS FOR THE MAIN, ACTIVE INGREDIENT IN THE MIXTURE

### 12.1 Toxicity

<b>Fish:</b>	LC50 fresh water (96h): $\geq 100$ mg/l (EC C.1) LC50 marine water (96h): $\geq 100$ mg/l (OECD 203)
<b>Daphnia magna:</b>	EC50 (48h): $\geq 100$ mg/l (EC C.2).
<b>Algae:</b>	EC50 freshwater (72h): $\geq 100$ mg/l (EC C.3) EC50 marine water (48h): $\geq 180$ mg/l (ISO DP 10253)
<b>Inhibition of microbial activity:</b>	Not toxic to waste water (activated sludge) bacteria at a concentration of 100 mg/l (nominal). 3h-IC50 > 100 mg/l
<b>Marine copepods:</b>	EC50 (48h): $\geq 100$ mg/l (ISO/DIS 14669)

### 12.2 Persistence and degradability

<b>Biodegradation:</b>	Considered not biodegradable, inorganic substance.
<b>Hydrolysis:</b>	Test is not performed due to the low water solubility.

### 12.3 Bioaccumulative potential

<b>Octanol-water partition coefficient (Kow):</b>	The partition coefficient can not be calculated.
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### 12.4 Mobility in soil

<b>Adsorption coefficient</b>	Not performed, inorganic substance.
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### 12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment was conducted since the active ingredient in the mixture is inorganic.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

<b>Waste from residues:</b>	Disposal in accordance with local and national regulations. Do not allow material to contaminate ground water system. Do not contaminate surface water.
<b>Container:</b>	Containers should be cleaned by appropriate method and then re-used or disposed by landfill or incineration as appropriate, in accordance with local and national regulations. Do not remove label until container is thoroughly cleaned.

## 14. TRANSPORT INFORMATION

<b>14.1 UN Number:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.2 UN Proper shipping name:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG



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<b>14.3 Transport hazard classes:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.4 Packing group:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.5 Environmental hazards:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.6 Special precautions for user:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:</b>	Not regulated for transport acc. ADR/DOT/IATA/IMDG

#### 15. REGULATORY INFORMATION

##### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture:

The main active ingredient of this mixture is listed on: TSCA, DSL, ECL, AREC, TSCI, NZIoC, PICCS, IECSC and ELINCS/REACH.  
The coating agent of this mixture is listed on: TSCA, DSL, INSQ, AICS, SWISS, ECL, NZIoC, PICCS, AICS, ENCS, IECSC, TSCI, AREC and EINECS/REACH.  
EU: The main active ingredient (EC 423-570-6) is classified in accordance with GHS/Regulation (EC) No 1272/2008 5th ATP on classification, labelling and packaging (CLP) of substances and mixtures amending and repealing Directives 67/548/ECC and 1999/45/EC.  
USA: NO CERCLA/SARA/OSHA substance specific requirements. No California proposition 65 substance specific requirements. No USA state specific requirements for this mixture.  
EU: The coating agent is exempted from the obligation to register in accordance with Regulation (EC) No 1907/2006, Article 2(7). This mixture does not contain any substances that are under REACH listed as SVHC  
Germany WHC(WGK) classification: Slightly water polluting substance; WGK 1  
Germany TRGS 510 classification: storage class 13; Non-combustible solids

##### 15.2 Chemical safety assessment:

A risk assessment has been performed by the RIVM and TNO in The Netherlands.

#### 16. OTHER INFORMATION

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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