

Safety Data Sheet (1907/2006/EC)

Arc Stabilising Solution

Version: 3.13

Date of print: 20.07.2022

Date of last alteration: 01.06.2022

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

1.1 Product identifier

Commercial product name: Arc Stabilising Solution

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

Use of substance / preparation:

Industrial.

Binder for: Construction products .

All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

1.3 Details of the supplier of the safety data sheet

Arc Building Products
IDA Business & Technology Park
Ballynattin
Arklow
Co.Wicklow
Ireland
Y14 A370

Tel: +353(0)402 32370
Fax: +353 (0)402 24168
Email: sales@arcbuildingproducts.ie

1.4 Emergency telephone number

Emergency Information: +353 (0)402 32370 (office hours only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Not a hazardous substance or mixture.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

No labeling according to GHS required.

Code	Additional Labelling
EUH208	Contains chloromethylisothiazolinone and methylisothiazolinone (3:1). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Biocidal Products Regulation (528/2012)

Contains a 3:1 mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one as preservative for products during storage according to regulation (EC) No 528/2012 art. 58(3).

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Copolymer of: acrylic acid ester + styrene (dispersion in water)

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3.2.2 Hazardous ingredients

Type	CAS No.	EC-No. REACH no.	Substance	Content %	Classification according to Regulation (EC) No. 1272/2008*	Comment
INHA	68954-91-6		Polyethylene glycol alkyl C10-C12, sulfosuccinate ether, disodium salt	>=1 – <2	Eye Dam. 1; H318	[1]
INHA	55965-84-9		Chloro-methyl-isothiazolin-one and methyl-isothiazolin-one (3:1 mix)	>=0,001 – <0,0015	Acute Tox. 3 oral; H301 Acute Tox. 2 dermal; H310 Acute Tox. 2 by inhalation / dust/mist; H330 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 EUH071	[1] Ma = 100 Mc = 100

Type: INHA: ingredient, VERU: impurity

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance

Ma = M-factor for acute aquatic toxicity

Mc = M-factor for chronic aquatic toxicity

*Classification codes are explained in section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Under ordinary workplace conditions: No special measures required.

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. Seek medical advice in case of continuous irritation.

After inhalation:

No special measures required.

After swallowing:

In cases of sickness seek medical advice (show label if possible).

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary. Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing media:

not applicable .

Extinguishing media which must not be used for safety reasons:

not applicable .

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

General information:

Product does not burn. Use extinguishing measures appropriate to the source of the fire. Dried up material is combustible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth).

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

General information:

No special protective measures required.

Precautions for safe handling:

Spilled substance increases risk of slipping.

Precautions against fire and explosion:

No special precautions against fire and explosion required.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Protect against frost.

Advice for storage of incompatible materials:

not applicable .

Further information for storage:

not applicable .

Minimum temperature allowed during storage and transportation: 0 °C

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Maximum airborne concentrations at the workplace:

Substance	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
Aerosol - inhalable fraction		10,0			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Do not eat or drink when handling.

Further information for system design and engineering measures

No special measures required.

Personal protection equipment:

Respiratory protection

No personal respiratory protective equipment normally required.

Eye protection

protective goggles .

Hand protection

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

For the choice of suitable gloves, workplace conditions have to be considered, like e.g. handling of other substances and materials.

Recommended glove types: Rubber gloves

Skin protection

not required .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:	Value:	Method:
Appearance		
Physical state	liquid	
Colour.....	white	
Odour		
Odour	weak	
Odour limit		
Odour limit.....	no data available	
pH-Value		
pH-Value	7,0 - 8,0 (50 %)	(DIN/ISO 976)
Melting point/freezing point		
Melting point / melting range	0 °C at 1013 hPa	(Lit.)
Initial boiling point and boiling range		
Boiling point / boiling range	100 °C at 1013 hPa	(Lit.)
Flash point		
Flash point.....	not applicable	
Evaporation rate		
Evaporation rate	no data available	

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Upper/lower flammability or explosive limits

Lower explosion limit (LEL): not applicable

Vapour pressure

Vapour pressure: 23 hPa / 20 °C

Solubility(ies)

Water solubility / miscibility: partly soluble

Vapour density

Relative gas/vapour density: No data known.

Relative Density

Relative Density: 1,03 (20 °C) (ISO 2811)
(Water / 4 °C = 1,00)

Density: 1,03 g/cm³ (20 °C) (ISO 2811)

Partition coefficient: n-octanol/water

Partition coefficient: n-octanol/water: No data known.

Auto-ignition temperature

Ignition temperature: Not applicable.

Decomposition temperature

Thermal decomposition: no data available

Viscosity

Viscosity (dynamic): 700 - 3000 mPa.s at 23 °C (Brookfield, spindle 3 / 20 rpm) (DIN EN ISO 2555)

Molecular mass

Molecular mass: not applicable

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

If stored and handled properly: none known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 5000 mg/kg (LD50 cut-off according ATC method)	Rat	Conclusion by analogy OECD 423

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11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
No skin irritation	human keratinocytes	Conclusion by analogy OECD 439
No skin irritation	Rabbit	Conclusion by analogy OECD 404

11.1.3 Serious eye damage / eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
No eye irritation	no data available	test report OECD 492
No eye irritation	Rabbit	Conclusion by analogy OECD 405

11.1.4 Respiratory or skin sensitization

Assessment:

Based on the available data a sensitization reaction is not expected from this product.

11.1.5 Germ cell mutagenicity

Assessment:

Based on known data a significant mutagenic potential may be excluded.

Product details:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

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11.1.10 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.1.11 Further toxicological information

No information on damage to health during manufacture and use.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

Result/Effect	Species/Test system	Source
LC50: > 100 mg/l	Oncorhynchus mykiss (rainbow trout) (96 h)	Conclusion by analogy OECD 203
EC50: > 1000 mg/l	Daphnia magna (Water flea) (48 h)	Conclusion by analogy OECD 202
EC10: > 1000 mg/l	activated sludge (0,5 h)	Conclusion by analogy

12.2 Persistence and degradability

Assessment:

Polymer component: Not readily biodegradable. Elimination by adsorption to activated sludge. Separation by flocculation is possible.

12.3 Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4 Mobility in soil

Assessment:

No adverse effects expected.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

none known

12.7 Additional information

According to present knowledge no adverse influence to environment expected.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

13.1.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

Recommended cleaning agent:

water

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation: Not regulated for transport

Railway RID:

Valuation: Not regulated for transport

Transport by sea IMDG-Code:

Valuation: Not regulated for transport

Air transport ICAO-TI/IATA-DGR:

Valuation: Not regulated for transport

14.5 Environmental hazards

Hazardous to the environment: no

14.6 Special precautions for user

Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

Not applicable

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES

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PRECURSORS: Not applicable

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan	: ENCS (Handbook of Existing and New Chemical Substances): This product is not listed or in compliance with the substance inventory.
Australia	: AiIC (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
China.....	: IECSC (Inventory of Existing Chemical Substances in China): This product is not listed or in compliance with the substance inventory.
Canada	: DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	: PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is not listed or in compliance with the substance inventory.
United States of America (USA).....	: TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan	: TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	: REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea)	: AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

15.2 Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Explanation of the GHS classification code:

- Eye Dam. 1; H318.....: Serious eye damage/eye irritation Category 1; Causes serious eye damage.
- Acute Tox. 3; H301: Acute toxicity Category 3; Toxic if swallowed.
- Acute Tox. 2; H310: Acute toxicity Category 2; Fatal in contact with skin.
- Acute Tox. 2; H330: Acute toxicity Category 2; Fatal if inhaled.
- Skin Corr. 1C; H314: Skin corrosion/irritation Category 1C; Causes severe skin burns and eye damage.
- Skin Sens. 1A; H317 ...: Skin sensitisation Category 1A; May cause an allergic skin reaction.
- Aquatic Acute 1; H400: Short-term (acute) aquatic hazard Category 1; Very toxic to aquatic life.
- Aquatic Chronic 1; H410 Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.
-:
- Eye Dam. 1; H318.....: Serious eye damage/eye irritation Category 1; Causes serious eye damage.
- EUH071: Corrosive to the respiratory tract.

- End of Safety Data Sheet -