

Material safety data sheet SDS
according to Regulation (EC) No. 1907/2006, as amended
ARISTO COPOLYMER

1. Identification of the substance/mixture and company

Product name/trade name: Aristo Copolymer
INCI: Ammonium Acryloyldimethyltaurate/VP Copolymer
Uses: Cosmetic Ingredient
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Risk of dust explosion. Does not require a hazard warning label, but the normal safety precautions for handling chemicals must be observed.

3. Declaration of ingredients

3.1 Substances

Substance name: A polymeric sulphonic acid , partially neutralized

CAS-No.: 335383-60-3

Components

Remarks: No hazardous ingredients

4. First aid measures

4.1 Description of first aid measures

General information: Remove contaminated clothing immediately. In the case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible)

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Inhalation: Remove casualty to fresh air and keep warm and at rest. Seek medical advice in case of unwellness

Eye contact: After contact with the eyes, rinse with water with the eyelids open for at least 15 minutes, then consult an ophthalmologist immediately

Skin contact: Wash immediately with soap and water

Ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention

4.2 Most important symptoms and effects, both acute and delayed

Treat symptomatically. None expected

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No additional measures identified

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂), foam, water spray, dry extinguishing powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: No data available

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment, see Section 8

6.2 Environmental precautions

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in a suitable container

6.4 Reference to other sections

Personal protection equipment: See Section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Avoid dust formation.

Avoid dust accumulation in enclosed space.

Provide appropriate exhaust ventilation at places where dust is formed.

Take measures to prevent the build up of electrostatic charge.

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Advice on protection against fire and explosion:

Observe the general rules of industrial fire protection Not combustible. Risk of dust explosion.

Hygiene measures:

Observe the usual precautions for handling chemicals.

Dust explosion class: St1

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

Keep container tightly closed. Keep container dry. Keep away from heat. Protect from moisture. hygroscopic

Advice on common storage:

Do not store with alkalies

7.3 Specific end use(s)

Specific use(s): No further recommendations

8. Exposure controls / personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Personal protective equipment

Eye/face protection:

Tightly fitting safety goggles

Hand protection

Remarks:

Protective gloves

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

not required under normal use

In the case of dust or aerosol formation use respirator with an approved filter.

Half mask with a particle filter P2 (EN 143)

Applicable national Regulations must be observed. Take note of the limitations regarding wear-time, in conjunction with the Regulations for the use of Respiratory Protective Equipment.

Protective measures:

Do not breathe dust.

Avoid contact with eyes.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: powder

Colour: white

Odour: characteristic

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Melting point: Decomposes before melting.
Boiling point: no data available
Upper explosion limit / upper flammability limit: Not applicable
Lower explosion limit / Lower flammability limit: Not applicable
Flash point: > 135 °C
Data relate to solvent
Auto-ignition temperature: Not applicable
Decomposition temperature: 250 °C
pH: approx. 4 - 6 (20 °C) Concentration: 1 g/l Method: DIN 53996
Viscosity
Viscosity, dynamic: Not applicable
Solubility(ies)
Water solubility: soluble 10 g/l Method: OECD Test Guideline 120
Solubility in other solvents: Solvent: fatdispersible
Partition coefficient: n-: not determined
Vapour pressure: Not applicable
Density: no data available
Bulk density: 230 kg/m³ Method: ISO 697
Relative vapour density: Not applicable
Particle characteristics
Particle size: no data available

9.2 Other information

Flammable solids
Burning number: 3
Local combustion without spreading
Self-ignition: The substance or mixture is not classified as self heating.
Metal corrosion rate: < 6,25 mm/a
Not corrosive to metals
Impact sensitivity: Not impact sensitive.
Dust explosion class: St1
Minimum ignition energy: 100 - 300 mJ (60 - 65 °C)
Molecular weight: > 10.000 g/mol

10. Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable under normal conditions. Hygroscopic.

10.3 Possibility of hazardous reactions

Hazardous reactions: Contact with strong bases liberates ammonia.

Stable

10.4 Conditions to avoid

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Conditions to avoid: Keep away from heat.

10.5 Incompatible materials

Materials to avoid: not known

10.6 Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401

Acute dermal toxicity: Remarks: not tested.

Skin corrosion/irritation

Product:

Species: Rabbit Method OECD Test Guideline 404

Result: No skin irritation Serious eye damage/eye irritation

Product:

Species: rabbit eye Method: OECD Test Guideline 405

Result: No eye irritation

Respiratory or skin sensitisation

Product:

Species: Guinea pig Method: OECD Test Guideline 406

Result: non-sensitizing

Germ cell mutagenicity

Product:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay

Test system: Salmonella typhimurium

Method: OECD Test Guideline 471

Result: negative

Germ cell mutagenicity- Assessment: Not mutagenic in Ames Test

Carcinogenicity

Product:

Carcinogenicity - Assessment: No information available.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment: No information available.

No information available.

Repeated dose toxicity

Product:

Remarks: not tested.

11.2 Information on other hazards

Endocrine disrupting properties

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Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product: Remarks:

By analogy with a product of similar composition

12. Ecological information

Ecotoxicity

Product: Ecotoxicology Assessment

Short-term (acute) aquatic hazard: No data available.

Long-term (chronic) aquatic hazard: No data available.

Persistence and degradability

Biodegradability: No data available.

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects No data available

Product: Additional ecological information: No data available

13. Disposal considerations

13.1 Product/Packaging disposal

Waste must be disposed of in line with local regulations

13.2 Waste treatment-relevant information

Waste must be disposed of in line with local regulations

13.3 Sewage disposal-relevant information

Avoid release to the environment or sewage system

13.4 Other disposal recommendations

Handle contaminated packages in the same way as the product

14. Transport information

According to IATA and ICAO regulations

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

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Not applicable

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

15. Regulatory information

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

National/local regulations are observed

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable

Regulation (EC) on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: Neither banned nor restricted

Council Regulation (EC) No 273/2004 on drug precursors: Not applicable

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

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

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

Not applicable

Other regulations: VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures"

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

16. Additional information

16.1 Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -

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Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.