

## Aristoflex Velvet

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## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Stewardship +1-704-331-7710
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

<b>Trade name:</b>	<b>Aristoflex Velvet</b>
<b>Material number:</b>	248710
<b>CAS number:</b>	1355508-95-0
<b>Primary product use:</b>	Thickener for emulsions
<b>Chemical family:</b>	A polymeric sulphonic acid , partially neutralized

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Combustible dust

**GHS label elements**

Signal word	: Warning
Hazard statements	: May form combustible dust concentrations in air.
Precautionary statements	: <b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take precautionary measures against static discharge. P233 Keep container tightly closed.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: A polymeric sulphonic acid , partially neutralized
CAS-No.	: 1355508-95-0

**Hazardous components**

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Chemical name	CAS-No.	Concentration (% w/w)
tert-Butyl alcohol	75-65-0	< 5
Product	Not Assigned	> 95

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**SECTION 4. FIRST AID MEASURES**

- General advice : Remove/Take off immediately all contaminated clothing.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin  
irritation occurs, seek medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Do not give anything to drink.  
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the  
labelling (see section 2).  
No additional symptoms are known.
- Notes to physician : None known.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam
- Unsuitable extinguishing media : Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be  
produced such as:  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur dioxide (SO<sub>2</sub>)  
Ammonia  
Carbon dioxide (CO<sub>2</sub>)
- Further information : Wear suitable protective equipment.
- Special protective equipment for firefighters : Self-contained breathing apparatus

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.  
Avoid dust formation.  
Ensure adequate ventilation.  
Small spills may be flushed to sewer or swept up. Larger spills should be shovelled up or otherwise collected for disposal. Clean up may be accomplished by removal of contaminated soil or by flushing with water if appropriate. Place soil or material in appropriate waste disposal containers.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- Methods and materials for containment and cleaning up : Pick up mechanically. Rinse away rest with water.  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Risk of dust explosion.  
Can be landfilled or incinerated, when in compliance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Dust can form an explosive mixture in air.
- Advice on safe handling : Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Wash thoroughly after handling.
- Technical measures/Precautions : Store in original container.  
Store in a cool, dry, well-ventilated area.
- Materials to avoid : Do not store with alkalies

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Methylpropan-2-ol	75-65-0	TWA	100 ppm	ACGIH
Further information: Central Nervous System impairment, Not classifiable as a human carcinogen				

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		TWA	100 ppm 300 mg/m <sup>3</sup>	NIOSH REL
		ST	150 ppm 450 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 300 mg/m <sup>3</sup>	OSHA Z-1
Further information: The value in mg/m <sup>3</sup> is approximate.				
		TWA	100 ppm 300 mg/m <sup>3</sup>	OSHA P0
		STEL	150 ppm 450 mg/m <sup>3</sup>	OSHA P0

**Engineering measures** : Local ventilation recommended - mechanical ventilation may be used.

**Personal protective equipment**

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

Hand protection  
Remarks : Nitrile rubber gloves.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Observe the usual precautions for handling chemicals.  
Avoid contact with skin and eyes.  
Do not breathe dust.

Hygiene measures : Observe the usual precautions for handling chemicals.  
When using do not eat or drink.  
Keep away from food and drink.  
Wash hands before breaks and at the end of workday.  
Remove/Take off immediately all contaminated clothing.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Colour : white

Odour : characteristic

Odour Threshold : not determined

pH : approx. 4 - 6  
(20 °C)  
Concentration: 1 g/l  
Method: DIN EN 1262

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Melting point	:	Decomposes before melting.
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Combustion number :		BZ3 Local combustion without spreading
Vapour pressure	:	not determined
Relative vapour density	:	Not applicable
Density	:	not determined
Bulk density	:	230 kg/m <sup>3</sup> Method: ISO 697
Solubility(ies)		
Water solubility	:	Gel formation (20 °C)
Solubility in other solvents	:	not determined Solvent: fat
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	approx. 250 °C
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	not determined
Explosive properties	:	Not explosive Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement
Molecular weight	:	100 - 500 kg/mol
Dust explosion class	:	ST1 Capable of dust explosion
Metal corrosion rate	:	< 6.25 mm/a

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Not corrosive to metals

Minimum ignition energy : 100 - 300 mJ

Particle size : 0.2 - 282.5 µm

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Contact with strong bases liberates ammonia.  
The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to avoid : Keep away from heat.

Incompatible materials : Alkalis

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

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Eye contact

Inhalation

**Acute toxicity****Product:**Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Remarks: no data available

**Components:****tert-Butyl alcohol:**

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

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**Skin corrosion/irritation****Product:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation****Product:**

Species: rabbit eye  
Result: No eye irritation  
Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Product:**

Test Type: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: non-sensitizing

Test Type: Skin  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: non-sensitizing

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay  
Species: Salmonella typhimurium  
Metabolic activation: with and without  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

: Test Type: Bacterial reverse mutation assay  
Species: Escherichia coli  
Metabolic activation: with and without  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : No information available.

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**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : No information available.

No information available.

**STOT - single exposure****Product:**

Remarks: no data available

**STOT - repeated exposure****Product:**

Remarks: no data available

**Repeated dose toxicity****Product:**

Remarks: This information is not available.

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae : Remarks: no data available

Toxicity to bacteria : EC50 (activated sludge): > 3,200 mg/l  
Method: OECD Test Guideline 209**Persistence and degradability****Product:**



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Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: no data available

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: no data available

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: no data available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act

Waste from residues : Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be landfilled in approved systems.

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

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**SECTION 14. TRANSPORT INFORMATION**

DOT not restricted  
IATA not restricted  
IMDG not restricted

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : This product contains the chemical or chemicals listed below which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirements of 40 CFR Part 372:

tert-Butyl alcohol 75-65-0 5 %

**Clean Water Act**

Contains no known priority pollutants at concentrations greater than 0.1%.

**The components of this product are reported in the following inventories:****TSCA** This product is not listed on the TSCA Inventory. It is to be used as a cosmetic ingredient only. Any other use will subject the user to penalties under the Toxic Substances Control Act and the regulations issued thereunder.

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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test

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population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Observe national and local legal requirements  
Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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