SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000 **Information of the substance/preparation:** Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com **Emergency tel. number:** +1 800-424-9300 CHEMTREC

Trade name: **ARISTOFLEX AVC**
Material number: 138240

Synonyms: Product Has No Synonyms

Primary product use: Thickener for emulsions

Chemical family: A polymeric sulphonic acid , partially neutralized

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements :

Prevention:

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. : Not Assigned

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Methylpropan-2-ol	75-65-0	1 - 3

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Remove/ Take off immediately all contaminated clothing.

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.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.

If swallowed : IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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
Foam

Unsuitable extinguishing media : Dry powder
Carbon dioxide (CO2)
High volume water jet

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Nitrogen oxides (NOx)
Sulphur dioxide
Ammonia
Risk of dust explosion in fine crystalline powder form.

Further information	:	Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment.
Special protective equipment for firefighters	:	Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. Keep away sources of ignition. Wear suitable protective equipment. Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable container.
Environmental precautions	:	Do not allow to enter drains or waterways
Methods and materials for containment and cleaning up	:	Pick up when dry. Forms slippery/greasy layers with water. Treat recovered material as described in the section "Disposal considerations". Rinse with water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Observe the general rules of industrial fire protection Not combustible. Risk of dust explosion.
Advice on safe handling	:	Avoid dust formation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Take measures to prevent the build up of electrostatic charge. Store in a dry place.
Further information on storage conditions	:	Store in original container. Keep container closed.
Materials to avoid	:	Do not store with alkalies

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis

		(Form of exposure)	parameters / Permissible concentration	
2-Methylpropan-2-ol	75-65-0	TWA	100 ppm	ACGIH
		TWA	100 ppm 300 mg/m3	NIOSH REL
		ST	150 ppm 450 mg/m3	NIOSH REL
		TWA	100 ppm 300 mg/m3	OSHA Z-1
		TWA	100 ppm 300 mg/m3	OSHA P0
		STEL	150 ppm 450 mg/m3	OSHA P0

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

Personal protective equipment

Respiratory protection : Wear NIOSH approved particulate filtering respirator rated N, R, or P95 or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on level of exposure.

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

Protective measures : Do not breathe dust.
Avoid contact with eyes.

Hygiene measures : Observe the usual precautions for handling chemicals.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white

Odour : characteristic

pH	:	approx. 4 - 6 (68 °F / 20 °C) Concentration: 1 g/l Method: DIN 53996
Melting point	:	Decomposes before melting.
Boiling point	:	no data available
Flash point	:	> 275 °F / > 135 °C Data relate to solvent
Flammability (solid, gas)	:	not determined
Self-ignition	:	The substance or mixture is not classified as self heating.
Burning number	:	3 Local combustion without spreading
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Density	:	no data available
Bulk density	:	230 kg/m3Method: ISO 697
Solubility(ies)		
Water solubility	:	soluble, gel formation (68 °F / 20 °C)
Solubility in other solvents	:	dispersible Solvent: fat
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	482 °F / 250 °C
Viscosity		
Viscosity, dynamic	:	Not applicable

Viscosity, kinematic	:	Not applicable
Impact sensitivity	:	Not impact sensitive.
Molecular weight	:	> 10,000 g/mol
Dust explosion class	:	St1
Metal corrosion rate	:	< 6.25 mm/a Not corrosive to metals
Minimum ignition energy	:	100 - 300 mJ (140 - 149 °F / 60 - 65 °C)
Particle size	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions. hygroscopic
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	:	None known.
Incompatible materials	:	not known
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
Skin contact
Inhalation

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Acute toxicity estimate: 75 mg/l Exposure time: 4 h

Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

2-Methylpropan-2-ol:

Acute oral toxicity : LD50 (Rat): 3,046 mg/kg
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Acute inhalation toxicity : LC50 (Rat, male and female): > 10000 ppm
Exposure time: 4 h
Test atmosphere: vapour
Method: OPPTS 870.1300
GLP: yes
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Skin corrosion/irritation

Product:

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

Components:

2-Methylpropan-2-ol:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Product:

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

Components:

2-Methylpropan-2-ol:

Result: Irritating to eyes.

Respiratory or skin sensitisation

Product:

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

Components:

2-Methylpropan-2-ol:

Test Type: Maximisation Test
Species: Guinea pig
Result: Not a skin sensitizer.

Assessment: Harmful if inhaled., Causes serious eye irritation.

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

Components:

2-Methylpropan-2-ol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

Components:

2-Methylpropan-2-ol:

Carcinogenicity - Assessment : The observed tumors do not appear to be relevant for men., Not classifiable as a human carcinogen.

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

No information available.

Components:

2-Methylpropan-2-ol:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility. Damage to fetus unlikely if the occupational exposure limit values are not exceeded., Embryotoxicity classification not possible from current data.

STOT - single exposure

Components:

2-Methylpropan-2-ol:

Assessment: May cause respiratory irritation.

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

2-Methylpropan-2-ol:

Remarks: Not classified due to data which are conclusive although insufficient for classification.

Repeated dose toxicity

Product:

Remarks: not tested.

Components:

2-Methylpropan-2-ol:

Repeated dose toxicity - Assessment : Harmful if inhaled., Causes serious eye irritation.

Aspiration toxicity

Components:

2-Methylpropan-2-ol:

No aspiration toxicity classification

Experience with human exposure

Product:

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

Further information

Product:

Remarks: By analogy with a product of similar composition

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: not tested.

Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to fish (Chronic toxicity) : Remarks: not tested.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not tested.

Toxicity to microorganisms : EC50 (activated sludge): > 3,200 mg/l
Method: OECD Test Guideline 209

Sediment toxicity : Remarks: not tested.

Components:

2-Methylpropan-2-ol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 961 mg/l Exposure time: 96 h LC50 (Brachydanio rerio (zebrafish)): > 856 mg/l Exposure time: 96 h Method: Tested according to Directive 92/69/EEC.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 933 mg/l Exposure time: 48 h Method: Tested according to Directive 92/69/EEC.
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 986 mg/l NOEC (Desmodesmus subspicatus (green algae)): >= 1,000 mg/l Exposure time: 72 h Test Type: Cell multiplication inhibition test Method: Tested according to Directive 92/69/EEC. EC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l Exposure time: 72 h Test Type: Cell multiplication inhibition test Method: Tested according to Directive 92/69/EEC.
Toxicity to fish (Chronic toxicity)	:	NOEC (Fish): 332 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: no data available
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 6,900 mg/l Exposure time: 16 h Test Type: Cell multiplication inhibition test Method: DIN 38412

Persistence and degradability

Product:

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

Components:

2-Methylpropan-2-ol:

Biodegradability	:	Result: Inherently biodegradable. Biodegradation: 66 % Exposure time: 56 d

Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: not tested.

Components:

2-Methylpropan-2-ol:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.

Mobility in soil

Product:

Distribution among environmental compartments	:	Remarks: not tested.

Components:

2-Methylpropan-2-ol:

Distribution among environmental compartments	:	Remarks: Highly mobile in soils The product evaporates from soil.

Other adverse effects

Product:

Environmental fate and pathways	:	Remarks: no data available
Additional ecological information	:	By analogy with a product of similar composition

Components:

2-Methylpropan-2-ol:

Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste.
Waste Code	:	NONE
Waste from residues	:	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
IATA	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

2-Methylpropan-2-ol	75-65-0	1 - 3 %

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:

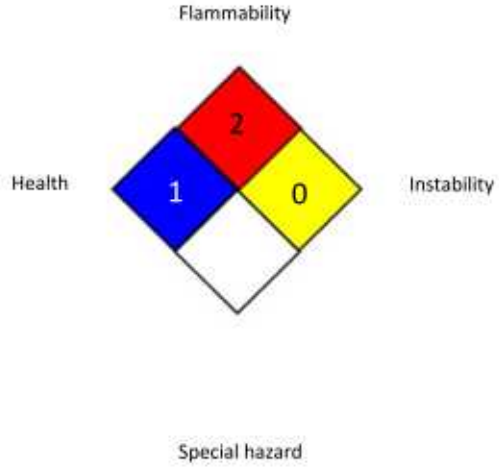
TSCA : This product is not listed on the Toxic Substances Control Act (TSCA) Inventory. It can not be used for any commercial purposes except as a bonafide cosmetic or cosmetic adjuvant, additive, or ingredient; or for use in research and development

under the supervision of a technically qualified individual to understand its potential hazards.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; 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 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; TECI - Thailand Existing Chemicals 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

Warning
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.

Revision Date : 05/19/2022

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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