

Safety Data Sheet

ARISTOCRAT LIQUID GLASS - HARDENER

Revision date: 12 /18/ 2023

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Hands and/or face should be washed before breaks and at the end of the shift. When using, do not eat, drink or smoke. Remove contaminated clothing.

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government Standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties

Form:	liquid	
Odor:	amine-like	
Color:	Clear	
pH value:	12	(100 g/l)
Melting point:	< -10 °C	
Boiling point:	> 250 °C	
Flash point:	> 200 °F	(ASTM D93)
Flammability:	not flammable	(other)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	> 200 °C	
Vapor pressure:	1.6 mbar	(20 °C)
	10.5 mbar	(55 °C)
Density:	0.987 g/cm ³	(20 °C)
Thermal decomposition:	315 °C, > 340 kJ/kg (DSC (DIN 51007)) Thermal decomposition above the indicated temperature is possible. self-accelerating reaction	
Viscosity, dynamic:	1500 – 2000 CPS	
Solubility in water:	Not very soluble [<1%]	
Evaporation rate:	< Ether.	

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effect on metals.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Conditions to avoid

No conditions known that should be avoided.

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Incompatible materials

Acids, oxidizing agents

Hazardous decomposition products

Decomposition products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Thermal decomposition: 145 °C (DSC (DIN51007))

315 °C (DSC (DIN51007))

Thermal decomposition above the indicated temperature is possible. self-accelerating reaction

11. Toxicological information

For Polyetheramine:

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of high toxicity after single ingestion. Virtually nontoxic after a single skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Oral

Type of value: LD50 Species: rat

Value: > 50 - < 200 mg/kg (OECD Guideline 423)

Inhalation Value: (IRT)

Exposure time: 8 h

No mortality within the stated exposition time as shown in animal studies. Literature data.

Dermal

Type of value: LD50 Species: rat

Value: > 2,000 mg/kg (OECD Guideline 402)

Assessment other acute effects Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion

Assessment of irritating effects: An in vitro test did not indicate the potential to cause skin corrosion. An in vitro test indicated the potential to cause serious damage to the eyes.

Skin

Result: Non corrosive.

Method: Epiderm Corrosivity Test

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Eye

Result: Risk of serious damage to eyes. Method: HET-CAM test in vitro

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Chronic Toxicity/Effects

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity: No data available.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

Teratogenicity

Assessment of teratogenicity: In animal studies the substance did not cause malformations. The results were determined in a Screening test (OECD 421/422).

Symptoms of Exposure

Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

For Nonyl-Phenol

Acute toxicity

LD50 Oral-Rat-male and female-1,412 mg/kg

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Skin-Rabbit

Result: Causes burns.-4 h

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes-Rabbit

Result: Corrosive-72 h

(OECD Test Guideline 405)

Respiratory or skin sensitisation

Maximisation Test (GPMT)-Guinea pig

Result: Does not cause skin sensitisation.

(OECD Test Guideline 406)

Germ cell mutagenicity

No data available

Carcinogenicity

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- 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Suspected human reproductive toxicant

Reproductive toxicity-Rat-Oral

Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical.

Suspected human reproductive toxicant

Specific target organ toxicity-single exposure

No data available

Specific target organ toxicity-repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity-Rat-male and female-No observed adverse effect level-10 mg/kg-Lowest observed adverse effect level-50 mg/kg

RTECS: Not available

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Aquatic invertebrates

EC50 (48 h) 13.0 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) Nominal values (confirmed by concentration control analytics)

Microorganisms/Effect on activated sludge

Toxicity to microorganisms OECD Guideline 209 aerobic activated sludge, domestic/EC20 (30 min): approx. 130 mg/l. The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

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Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria). Poorly biodegradable. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Elimination information

< 10 % DOC reduction (28 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulative potential

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Ecotoxicological data

Components	Test Results
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PARA-NONYLPHENOL (84852-15-3)

EC50 Daphnia: 0.035 mg/l 48 hours

LC50 Algae: 0.0563 mg/l 72 hours

LC50 Fathead minnow (Pimephales promelas): 0.1383 mg/l 96 hours

LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss):

0.14 - 0.23 mg/l 96 hours

Mobility The product is essentially insoluble in water.

Persistence and degradability

NONYLPHENOL: Terrestrial Fate: low: volatilization, mobility. Aquatic Fate: may adsorb to suspended solids & sediments; low volatilization; biodegrades [BOD28 ~78%]. Atmospheric Fate: photochemically degrades [half-life ~2.5 hours].

Environmental effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Partition coefficient 4.8

Mobility in environmental media - The product is essentially insoluble in water.

Additional information

Absorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

13. Disposal Considerations

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization. Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This material may satisfy the criteria of a synthetic oil per 40 CFR 279.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent

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unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Proper shipping name: Amines, liquid, corrosive, n.o.s., (Polyoxypropylenediamine)

Sea transport

IMDG

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Marine pollutant: YES (para-nonylphenol)
Proper shipping name: Amines, liquid, corrosive, n.o.s., (Polyoxypropylenediamine)

Air transport

IATA/ICAO

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Proper shipping name: Amines, liquid, corrosive, n.o.s., (Polyoxypropylenediamine)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released /listed

Sara 302, 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimus) reporting levels established by SARA Title III, Section 302, 313

EPCRA 311/312 (Hazard categories): Acute Health Hazard; Chronic Health Hazard

California Prop 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

MA, PA, NJ Right-To-Know

Chemical	CAS	%
4-Nonylphenol, branched	84852-15-3	25-75%

NFPA Hazard codes:

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Health : 3 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 3 Flammability: 1 Physical hazard:0

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Met. Corr.	1	Corrosive to metals
Acute Tox.	2 (oral)	Acute toxicity
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic

16. Other Information

SDS Prepared by:

B.D. Classic Enterprises SDS
Prepared on: 2018/10/21

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