

MATERIAL SAFETY DATA SHEET**Anodal Color S-2 Liq**

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Substance key: KS13578
Version : 1 - 4 / CDNRevision Date: 12/17/2010
Date of printing :12/22/2010**WHMIS controlled:** yes
Class: E**Section 01 - Product Information****Identification of the company:**Clariant (Canada) Inc.
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Toronto, Ontario, M9C 5R9
Telephone No.: +1 514-832-2559**Information of the substance/preparation:**ESHA
Phone (514) 832 2559, Fax (704) 330 1505
Canada.PS@Clariant.com**Emergency tel. number:** +1 CANUTEC (613) 996-6666**Trade name:** **Anodal Color S-2 Liq**
Material number: 102722
Chemical family: organic acids
anionic
Primary product use: aluminium chemicals**Section 02 - Composition information on hazardous ingredients****Hazardous ingredients:**

| Component | CAS number | Concentration |
|------------------------|------------|---------------|
| Sulfuric acid | 7664-93-9 | 1 - 5 % |
| 5-Sulphosalicylic acid | 97-05-2 | 10 - 30 % |

Component toxicity information:

Sulfuric acid (7664-93-9)

Acute oral toxicity: LD50 2,140 mg/kg (rat)**Section 03 - Hazards identification****Health effects of exposure:**

Eye and skin contact will cause irritation. Inhalation of vapours or mists may cause irritation of respiratory tract.

Sulfuric acid: extremely irritating, corrosive, and toxic to tissue. Harmful by ingestion, inhalation and skin contact. Repeated contact with dilute solutions can cause dermatitis. Repeated or prolonged inhalation of a mist can cause inflammation of the upper respiratory tract leading to chronic bronchitis. Severe exposure to vapours or mists may cause chemical pneumonitis. IARC has classified strong inorganic mists containing sulfuric acid as a known human carcinogen (IARC category 1).

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Listed carcinogen: IARC: Yes
NTP: No
OSHA: No
Other: No

Section 04 - First aid measures**After inhalation:**

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped or is difficult. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

Remove contaminated clothing and wash affected areas with plenty of water. If redness or skin irritation occurs, seek medical attention.

After contact with eyes:

Immediately wash the eyes with flowing water for at least 15 minutes. Insure proper irrigation by occasionally lifting upper and lower eyelids. Thereafter seek prompt medical attention.

After ingestion:

If ingested, do not induce vomiting. Get immediate medical assistance.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint: no flash point up to the boiling point

Extinguishing media: all

Special fire fighting procedure:

This product is not combustible

Unusual fire and explosion hazards: None known.

Hazardous combustion products:

carbon oxides
nitrogen oxides
sulfur oxides

Section 06 - Accidental release measures**Steps to be taken in case of spill or leak:**

Wear suitable protective equipment. Ensure adequate ventilation. Contain spill and pump into proper containers using compatible equipment. Smaller spills may be recovered using inert absorbent material (sand, sawdust) and collected into suitable containers. Wash spill area. Do not allow the product to enter sewers or waterways.

Section 07 - Handling and storage

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Ventilation, local exhaust required.

In case of insufficient ventilation, wear suitable respiratory equipment.

Further info on storage conditions:

Keep container tightly closed in a cool, well-ventilated place

Section 08 - Exposure controls / personal protection**Occupational exposure limits:**

| Component | CAS number: | Regulatory list | Type of value | Value 1 | Value 2 |
|---------------|-------------|---------------------------------------|--|---------|-----------|
| Sulfuric acid | 7664-93-9 | US ACGIH Threshold Limit Values | Threshold Limit Value_Time Weighted Average | | 0.2 mg/m3 |

Respiratory protection:

Wear an approved respirator when exposed to vapours or to mists beyond the TLV. Use appropriate filters. Do not exceed filters limitations. TLV = Threshold Limit Value

Hand protection:

Butyl Rubber, PVC or Neoprene

Eye protection:

Wear chemical goggles and full face shield.

Other protective equipment:

The use of impervious coveralls and boots is highly recommended when handling this product.

Section 09 - Physical and chemical properties

| | |
|-----------------------------|---|
| Form: | aqueous solution |
| Color: | green brown |
| Odor: | yes |
| pH: | < 1 (20 °C) |
| Solubility in water: | (20 °C) miscible |
| Density: | 1.15 g/cm ³ (20 °C, 1,013 hPa) |
| Melting point : | not applicable |
| Boiling point : | app. 100 °C |

Section 10 - Stability and reactivity

| | |
|---|---|
| Chemical stability: | Stable. |
| Hazardous Polymerization: | Will not occur. Conditions to avoid: None known. |
| Hazardous decomposition products | When used and handled as intended, none. |

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| | |
|-----------------------------|--|
| Acute oral toxicity: | LD50 > 2,000 mg/kg (rat) Method: 1999/45/EC |
| Skin irritation: | irritant Method: evaluation based on the low pH-value |
| Eye irritation: | irritant Method: evaluation based on the low pH-value |

Section 12 - Ecological information

| | |
|---------------------------|--|
| Biodegradation: | app. 25 % (28 d, DOC) Method: test result of a related preparation. |
| Daphnia toxicity: | EC50 10 - 100 mg/l (daphnia magna (water flea)) Method: OECD 202.I Test conducted with a similar formulation. |
| Bacteria toxicity: | IC50 > 100 mg/l (activated sludge) Method: OECD 209 * 1984 activated sludge.Respir.inhib. Test conducted with a similar formulation. |

Section 13 - Disposal considerations**Waste disposal information:**

Wastes may be incinerated or landfilled after solidification in approved sites. Follow local regulations.

Section 14 - Transport information**TDG**

| | |
|-----------------------|-----------------------------|
| Proper shipping name: | Arylsulphonic acids, liquid |
| Class: | 8 |
| Packing group: | III |
| UN/ID number: | UN 2586 |
| Primary risk: | 8 |
| Remarks: | Shipment permitted |

IATA

| | |
|-----------------------|-----------------------------|
| Proper shipping name: | Arylsulphonic acids, liquid |
| Class: | 8 |
| Packing group: | III |
| UN/ID number: | UN 2586 |
| Primary risk: | 8 |
| Remarks: | Shipment permitted |

IMDG

| | |
|-----------------------|-----------------------------|
| Proper shipping name: | Arylsulphonic acids, liquid |
| Class: | 8 |

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Packing group: III
UN no.: UN 2586
Primary risk: 8
EmS: F-A S-B

Section 15 - Regulatory information

Registration status

DSL: no
NDSL: yes

The product is not listed on the DSL, however, there is an import limit that allows Clariant (Canada) to import/market the product in Canada.

CEPA

Listed as priority substance: no
Listed as toxic substance: no

TSCA Status:

All components of this product are listed on the TSCA Inventory.

FDA:

This product is not registered with the FDA.

Section 16 - Other information

WHMIS



CORROSIVE
IRRITATING TO EYES, SKIN AND RESPIRATORY SYSTEM

The information contained on this MSDS is to the best of our knowledge an accurate summary of the data available as of the date of preparation. Clariant (Canada) Inc. is not liable for the application or use of this information in situations beyond its control or outside the normal and expected use of its product. Clariant (Canada) Inc. assumes no responsibility for damage or injury from the use of the product described herein.