

SAFETY DATA SHEET

Revision Date: 02/19/2019

Print Date: 8/10/2022

SDS Number: 000000161398

Version: 1.6

Ameroyal™ C801 CLEANER
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 761431

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Ameroyal™ C801
 CLEANER
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 registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA)	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
RegulatoryRequestsNA@solenis.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Serious eye damage : Category 1

Specific target organ toxicity : Category 2 (Respiratory Tract)
 - repeated exposure
 (Inhalation)

GHS label elements

Hazard pictograms :  

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
 H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P280 Wear eye protection/ face protection.

Response:

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
DISODIUM SALT	Trade Secret	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373	>= 10 - < 15
AROMATIC ETHER SULFONATE	Trade Secret	Eye Dam. 1; H318	>= 1.5 - < 3

SECTION 4. FIRST AID MEASURES

- | | |
|-------------------------|---|
| General advice | : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| In case of skin contact | : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water. |
| In case of eye contact | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye. |
| If swallowed | : Obtain medical attention.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages. |

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Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
 Causes serious eye damage.
 May cause damage to organs through prolonged or repeated exposure if inhaled.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO ₂)
Dry chemical |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during firefighting | : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Ammonia
toxic fumes
Nitrogen oxides (NO _x)
Carbon monoxide
Carbon dioxide (CO ₂)
phosphine
sulfur oxides |
| Specific extinguishing methods | : Product is compatible with standard fire-fighting agents. |
| Further information | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. |
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Comply with all applicable federal, state, and local regulations.

- | | |
|---|---|
| Environmental precautions | : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | |
|---|--|
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection. |
| Advice on safe handling | : Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- | | |
|----------------------|--|
| Engineering measures | : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects. |
|----------------------|--|

Personal protective equipment

Hand protection

- | | |
|---------|---|
| Remarks | : The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
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| Eye protection | : Wear chemical splash goggles and face shield when there is |
|----------------|--|

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potential for exposure of the eyes or face to liquid, vapor or mist.

Maintain eye wash station in immediate work area.

- | | |
|--------------------------|--|
| Skin and body protection | : <ul style="list-style-type: none"> Wear as appropriate: Impervious clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier). |
| Hygiene measures | : <ul style="list-style-type: none"> Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	11 - 12
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	98.89 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.16 (25 °C)
Density	:	1.16 g/cm3 (25 °C)
Solubility(ies)		
Water solubility	:	No data available

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Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : aluminum
Copper
Copper alloys
Nickel
Oxidizing agents
reactive metals such as aluminum and magnesium
steel
Strong acids
Strong bases
ZincHazardous decomposition products : Ammonia
Nitrogen oxides (NO_x)
toxic fumes
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

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

Acute inhalation toxicity : Acute toxicity estimate: 14.03 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:**DISODIUM SALT:**

Acute oral toxicity : LD 50 (Rat, Female): 1,780 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

AROMATIC ETHER SULFONATE:

Acute oral toxicity : LD 50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Assessment: No adverse effect has been observed in acute oral toxicity tests.
Remarks: Based on similar product.

Acute dermal toxicity : LD50 (Rabbit, male): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation

Not classified based on available information.

Components:**DISODIUM SALT:**

Species: Rabbit
Result: Not irritating to skin

AROMATIC ETHER SULFONATE:

Species: Rabbit
Result: Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

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761431**Components:****DISODIUM SALT:**

Result: Corrosive to eyes

AROMATIC ETHER SULFONATE:

Species: Rabbit

Result: Corrosive to eyes

Method: OECD Test Guideline 405

GLP: yes

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**DISODIUM SALT:**

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Remarks: Information given is based on data obtained from similar substances.

Germ cell mutagenicity

Not classified based on available information.

Components:**DISODIUM SALT:**

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

AROMATIC ETHER SULFONATE:

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

: Test Type: Chromosome aberration test in vitro
Species: Rodent cell line

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Remarks: Information given is based on data obtained from
similar substances.

: Test Type: In vitro mammalian cell gene mutation test

Species: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Remarks: Information given is based on data obtained from
similar substances.

Genotoxicity in vivo

: Test Type: chromosome aberration assay

Species: Rat (male and female)

Result: negative

Remarks: Based on similar product.

Carcinogenicity

Not classified based on available information.

Components:**DISODIUM SALT:**

Result: negative

Remarks: Expert judgement

see user defined free text

IARCNo 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**

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposureMay cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if
inhaled.

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Components:

DISODIUM SALT:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 66.0 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203
 GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Daphnia magna (Water flea)): 131 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202
 GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

Components:

DISODIUM SALT:

Toxicity to fish : LC 50 (Lepomis macrochirus): > 100 mg/l
 Exposure time: 96 h
 Remarks: Based on a similar product formulation.

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 140 mg/l
 Exposure time: 48 h
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC 50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l

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Exposure time: 72 h
 Method: Directive 67/548/EEC, Annex V, C.3.
 Remarks: Based on a similar product formulation.

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|--|---|---|
| Toxicity to fish (Chronic toxicity) | : | NOEC (Danio rerio): >= 36.9 mg/l
Exposure time: 35 d
Method: OECD Test Guideline 210
Remarks: Based on similar product. |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 25 mg/l
Exposure time: 21 d
Test Type: semi-static test
Remarks: Information given is based on data obtained from similar substances. |
| Toxicity to microorganisms | : | EC50 (activated sludge): 500 mg/l
Exposure time: 0.5 h
Remarks: Based on a similar product formulation. |

AROMATIC ETHER SULFONATE:

- | | | |
|--|---|---|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 3.85 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | LC 50 (Daphnia magna (Water flea)): 1.64 mg/l
Exposure time: 48 h
Test Type: static test |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia (water flea)): 1.08 mg/l
End point: Reproduction Test
Exposure time: 7 d
Test Type: semi-static test |

Persistence and degradability

Components:

DISODIUM SALT:

- | | | |
|------------------|---|---|
| Biodegradability | : | Result: Not readily biodegradable.
Biodegradation: < 10 %
Exposure time: 28 d
Method: OECD Test Guideline 301E |
| | | Biodegradation: 90 - 100 %
Exposure time: 72 d
Method: OECD Test Guideline 301E |

AROMATIC ETHER SULFONATE:

- | | | |
|------------------|---|-------------------------------------|
| Biodegradability | : | Remarks: Not readily biodegradable. |
|------------------|---|-------------------------------------|

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Bioaccumulative potential

Components:

DISODIUM SALT:

Partition coefficient: n-octanol/water : log Pow: < 3

AROMATIC ETHER SULFONATE:

Partition coefficient: n-octanol/water : log Pow: < -2.68 (20 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- | | |
|------------------------|--|
| Waste from residues | : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company. |
| | Dispose of in accordance with all applicable local, state and federal regulations. |
| Contaminated packaging | : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers. |

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

IATA-DGR

Not dangerous goods

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IMDG-Code

Not dangerous goods

CFR

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	<input type="checkbox"/>	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	163185

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 : Specific target organ toxicity (single or repeated exposure)
Serious eye damage or eye irritation

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

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory

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IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : On TSCA Inventory

TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements

- | | |
|------|---|
| H302 | : Harmful if swallowed. |
| H318 | : Causes serious eye damage. |
| H332 | : Harmful if inhaled. |
| H373 | : May cause damage to organs through prolonged or repeated exposure if inhaled. |

Full text of other abbreviations

- | | |
|------------|--|
| Acute Tox. | : Acute toxicity |
| Eye Dam. | : Serious eye damage |
| STOT RE | : Specific target organ toxicity - repeated exposure |

Further information

- | | |
|-------------------|---|
| Other information | : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department. |
|-------------------|---|

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 -

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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; 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

US / EN