

## SAFETY DATA SHEET

Revision Date: 02/24/2020

Print Date: 10/11/2020

SDS Number: 000000270993

Version: 1.0

Amersite™ 2-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877588

### SECTION 1. IDENTIFICATION

#### Product identifier

Trade name : Amersite™ 2-KF  
 CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries

#### Recommended use of the chemical and restrictions on use

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

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

#### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ eye protection/ face protection.

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**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 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.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.

**Disposal:**

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

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Components**

| Chemical name    | CAS-No.      | Classification   | Concentration (%) |
|------------------|--------------|--|-------------------|
| SODIUM BISULFITE | 7631-90-5    | Acute Tox. 4; H302   | >= 30 - < 40      |
| ALKALINE         | Trade Secret | Met. Corr. 1; H290<br>Skin Corr. 1; H314<br>Eye Dam. 1; H318 | >= 1.5 - < 5      |

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- |                         |   |
|-------------------------|---|
| General advice          | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.          |
| If inhaled              | : If breathed in, move person into fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.    |
| In case of skin contact | : Remove contaminated clothing. If irritation develops, get medical attention.<br>If on skin, rinse well with water.<br>Wash contaminated clothing before re-use. |
| In case of eye contact  | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.   |

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**If swallowed**

- : Obtain medical attention.
- Do NOT induce vomiting.
- Rinse mouth with water.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

**Most important symptoms and effects, both acute and delayed**

- : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
  - stomach or intestinal upset (nausea, vomiting, diarrhea)
  - irritation (nose, throat, airways)
  - Cough
  - lung edema (fluid buildup in the lung tissue)
  - Difficulty in breathing
  - Sulphur dioxide may be released if this material comes into contact with acids, water and/or ice. In contact with moisture, sulfur dioxide forms sulfuric acid which is corrosive to skin and mucous membranes.
  - Harmful if swallowed.
  - Causes skin irritation.
  - Causes serious eye damage.

**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<sub>2</sub>)  
 Dry chemical

**Unsuitable extinguishing media** : High volume water jet

**Specific hazards during firefighting** : Do not allow run-off from fire fighting to enter drains or water courses.

**Hazardous combustion products** : sodium sulphide residue  
 Sulphur oxides  
 corrosive vapors  
 Sodium oxides  
 toxic fumes

**Specific extinguishing methods** : Product is compatible with standard fire-fighting agents.

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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**

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. 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 : 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. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

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

| Components | CAS-No. | Value type | Control | Basis |
|------------|---------|------------|---------|-------|
|------------|---------|------------|---------|-------|

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|                  |              | (Form of exposure) | parameters / Permissible concentration |           |
|------------------|--------------|--------------------|--|-----------|
| SODIUM BISULFITE | 7631-90-5    | TWA                | 5 mg/m3                                | ACGIH     |
|                  |              | TWA                | 5 mg/m3                                | NIOSH REL |
| ALKALINE         | Trade Secret | C                  | 2 mg/m3                                | ACGIH     |
|                  |              | C                  | 2 mg/m3                                | NIOSH REL |
|                  |              | TWA                | 2 mg/m3                                | OSHA Z-1  |
|                  |              | C                  | 2 mg/m3                                | OSHA P0   |

**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.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:  
 Impervious clothing  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.  
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : 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

Colour : light pink

Odour : No data available

Odour Threshold : No data available

pH : 2.9 - 5.2

Melting point/range : 16 °F / -9 °C

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|  |   |                           |
|--|---|---------------------------|
| Boiling point/boiling range                      | : | 212 °F / 100 °C           |
| Flash point                                      | : | No data available         |
| Evaporation rate                                 | : | No data available         |
| Flammability (solid, gas)                        | : | No data available         |
| Self-ignition                                    | : | No data available         |
| Upper explosion limit / Upper flammability limit | : | No data available         |
| Lower explosion limit / Lower flammability limit | : | No data available         |
| Vapour pressure                                  | : | No data available         |
| Relative vapour density                          | : | No data available         |
| Relative density                                 | : | No data available         |
| Density  | : | 1.3 g/cm3 (77 °F / 25 °C) |
| Solubility(ies)                                  |   |                           |
| Water solubility                                 | : | No data available         |
| 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                | : | Freezing temperatures.                              |

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Heat, flames and sparks.  
 Exposure to air.  
 Exposure to sunlight.  
 Exposure to moisture

|                                  |   |  |
|----------------------------------|---|--|
| Incompatible materials           | : | Acids<br>halogenated hydrocarbons<br>Metals<br>organic nitro compounds<br>Oxidizing agents |
| Hazardous decomposition products | : | Sulphur oxides<br>corrosive vapors<br>Sodium oxides<br>toxic fumes                         |

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

### Components:

#### SODIUM BISULFITE:

|                       |   |   |
|-----------------------|---|---|
| Acute oral toxicity   | : | Assessment: The component/mixture is classified as acute oral toxicity, category 4. |
| Acute dermal toxicity | : | LD 50 (Rat): > 2 g/kg   |

#### ALKALINE:

|                     |   |                           |
|---------------------|---|---------------------------|
| Acute oral toxicity | : | LD Lo (Rabbit): 500 mg/kg |
|---------------------|---|---------------------------|

#### Skin corrosion/irritation

Causes skin irritation.

### Product:

|         |   |  |
|---------|---|--|
| Remarks | : | May cause skin irritation and/or dermatitis. |
|---------|---|--|

### Components:

#### SODIUM BISULFITE:

|        |   |                        |
|--------|---|------------------------|
| Result | : | Not irritating to skin |
|--------|---|------------------------|

#### ALKALINE:

|        |   |                   |
|--------|---|-------------------|
| Result | : | Corrosive to skin |
|--------|---|-------------------|

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**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:****SODIUM BISULFITE:**

Result : Mildly irritating to eyes

**ALKALINE:**

Result : Corrosive to eyes

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****SODIUM BISULFITE:****Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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**Further information****Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

**Components:****SODIUM BISULFITE:**

Toxicity to fish : LC 50 (Western mosquitofish (*Gambusia affinis*)): 240 mg/l  
Exposure time: 96 h  
Method: Static  
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): 119 mg/l  
Exposure time: 48 h  
Method: Static  
Remarks: Mortality

LC 50 (Water flea (*Daphnia magna*)): 89 mg/l  
Exposure time: 96 h  
Method: Static

**ALKALINE:**

Toxicity to fish : LC 50 (Western mosquitofish (*Gambusia affinis*)): 125 mg/l  
Exposure time: 96 h  
Method: Static  
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 34.59 - 47.13 mg/l  
Exposure time: 48 h  
Remarks: Intoxication

**Persistence and degradability**

No data available

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**Bioaccumulative potential****Components:****SODIUM BISULFITE:**

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

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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

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

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

- |  |  |
|--|--|
| UN number                                | : UN 2693  |
| Proper shipping name                     | : Bisulphites, aqueous solution, n.o.s. (SODIUM BISULFITE) |
| Class                                    | : 8  |
| Packing group                            | : III  |
| Packing instruction (cargo aircraft)     | : 856  |
| Packing instruction (passenger aircraft) | : 852  |

**IMDG-Code**

- |                      |  |
|----------------------|--|
| UN number            | : UN 2693  |
| Proper shipping name | : BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SODIUM BISULFITE) |
| Class                | : 8  |
| Packing group        | : III  |

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EmS Code : F-A, S-B  
 Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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 BISULFITE | 7631-90-5 | 5000               | 13833                       |

#### 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** : Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 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  | : On the inventory, or 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  | : On the inventory, or in compliance with the inventory |
| TSCA  | : All substances listed as active on the TSCA inventory |

**TSCA list**

No substances are subject to a Significant New Use Rule.

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**

- |      |  |
|------|--|
| H290 | : May be corrosive to metals.              |
| H302 | : Harmful if swallowed.                    |
| H314 | : Causes severe skin burns and eye damage. |
| H318 | : Causes serious eye damage.               |

**Full text of other abbreviations**

- |                 |   |
|-----------------|---|
| Acute Tox.      | : Acute toxicity  |
| Eye Dam.        | : Serious eye damage  |
| Met. Corr.      | : Corrosive to metals   |
| Skin Corr.      | : Skin corrosion  |
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)   |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits  |
| OSHA P0         | : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000                             |
| OSHA Z-1        | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| ACGIH / TWA     | : 8-hour, time-weighted average   |
| ACGIH / C       | : Ceiling limit   |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / C   | : Ceiling value not be exceeded at any time.  |
| OSHA P0 / C     | : Ceiling limit   |
| OSHA Z-1 / TWA  | : 8-hour time weighted average  |

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

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN