

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

**SECTION 1. IDENTIFICATION****Product identifier**

Trade name : Amercor™ 8548-KF  
CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
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)

RegulatoryRequestsNA@solenis.com

**Emergency telephone number**  
1-844-SOLENIS (844-765-3647)**Product Information**

Contact your local Solenis representative

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

- |   |                                   |
|---|-----------------------------------|
| Flammable liquids                                   | : Category 4                      |
| Skin corrosion                                      | : Category 1                      |
| Serious eye damage                                  | : Category 1                      |
| Reproductive toxicity                               | : Category 2                      |
| Specific target organ toxicity<br>- single exposure | : Category 3 (Respiratory system) |

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child.

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

**Precautionary statements****Prevention:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
- 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.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

**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 (%)
CYCLOHEXYLAMINE	108-91-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H312	>= 10 - < 15

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

		Skin Corr. 1B; H314 Eye Dam. 1; H318 Repr. 2; H361	
AMINE	Trade Secret	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 10 - < 15
Morpholine	110-91-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 5 - < 10

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              | : Move to fresh air.<br>IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.<br>Keep patient warm and at rest.<br>If unconscious, place in recovery position and seek medical advice.  |
| In case of skin contact | : If on skin, rinse well with water.<br>Wash contaminated clothing before re-use.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.                              |
| If swallowed            | : Get medical attention immediately.<br>Do NOT induce vomiting.<br>Rinse mouth with water.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

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  
 nervousness  
 effects on blood pressure  
 chest pain  
 halo vision (blurred vision around bright objects)  
 loss of coordination  
 methemoglobinemia (blood abnormality which causes a blue coloring to the skin)  
 lung edema (fluid buildup in the lung tissue)  
 Difficulty in breathing  
 Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency.  
 Pulmonary edema may be delayed.  
 Causes serious eye damage.  
 May cause respiratory irritation.  
 Suspected of damaging fertility or the unborn child.  
 Causes severe burns.

Notes to physician

- : No hazards which require special first aid measures.

## SECTION 5. FIREFIGHTING MEASURES

- |                                      |  |
|--------------------------------------|--|
| Suitable extinguishing media         | : <ul style="list-style-type: none"> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</li> <li>Water spray</li> <li>Foam</li> <li>Carbon dioxide (CO<sub>2</sub>)</li> <li>Dry chemical</li> </ul>  |
| Unsuitable extinguishing media       | : <ul style="list-style-type: none"> <li>High volume water jet</li> </ul>  |
| Specific hazards during firefighting | : <ul style="list-style-type: none"> <li>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.</li> <li>Do not allow run-off from fire fighting to enter drains or water courses.</li> </ul> |
| Hazardous combustion products        | : <ul style="list-style-type: none"> <li>Ammonia</li> <li>Carbon monoxide</li> <li>Carbon dioxide (CO<sub>2</sub>)</li> </ul>  |

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

Cyanides  
 toxic fumes  
 various hydrocarbons  
 Nitrogen oxides (NOx)  
 formaldehyde  
 nitrogen compounds

- |   |   |
|---|---|
| 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.<br>Use a water spray to cool fully closed containers. |
| 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 | : Remove all sources of ignition.<br>Use personal protective equipment.<br>Ensure adequate ventilation.<br>Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.<br>Comply with all applicable federal, state, and local regulations.<br>Suppress (knock down) gases/vapours/mists with a water spray jet. |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities.  |
| Methods and materials for containment and cleaning up               | : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Keep in suitable, closed containers for disposal.   |

## SECTION 7. HANDLING AND STORAGE

- |   |  |
|---|--|
| Advice on protection against fire and explosion | : No sparking tools should be used.<br>Keep away from open flames, hot surfaces and sources of ignition.<br><br>Static ignition hazard can result from handling and use.<br>Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National |
|---|--|

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

Version: 2.1

Fire Protection Association document NFPA 77.

- Advice on safe handling : Avoid formation of aerosol.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.  
 When diluting, always add the product to water. Never add water to the product.  
 Container hazardous when empty.  
 Avoid exposure - obtain special instructions before use.  
 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.  
 Observe label precautions.  
 No smoking.  
 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 (Form of exposure)	Control parameters / Permissible concentration	Basis
CYCLOHEXYLAMINE	108-91-8	TWA	10 ppm	ACGIH
		TWA	10 ppm 40 mg/m <sup>3</sup>	NIOSH REL
		TWA	10 ppm 40 mg/m <sup>3</sup>	OSHA P0
AMINE	Trade Secret	TWA	2 ppm	ACGIH
		TWA	10 ppm 50 mg/m <sup>3</sup>	NIOSH REL
		TWA	10 ppm 50 mg/m <sup>3</sup>	OSHA Z-1

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

		TWA	10 ppm 50 mg/m <sup>3</sup>	OSHA P0
Morpholine	110-91-8	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m <sup>3</sup>	NIOSH REL
		ST	30 ppm 105 mg/m <sup>3</sup>	NIOSH REL
		TWA	20 ppm 70 mg/m <sup>3</sup>	OSHA Z-1
		TWA	20 ppm 70 mg/m <sup>3</sup>	OSHA P0
		STEL	30 ppm 105 mg/m <sup>3</sup>	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

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
 A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

### 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  
 Chemical resistant apron  
 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.

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

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.  
 Ensure that eyewash stations and safety showers are close to the workstation location.  
 When using do not smoke.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	12.5
Melting point/freezing point	:	20 °F / -7 °C
Boiling point/boiling range	:	No data available
Flash point	:	142.00 °F / 61.11 °C
		Method: Pensky Martens closed cup
Evaporation rate	:	> 1 Ethyl Ether
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	:	0.990 g/cm3 (77.00 °F / 25.00 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

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 : Vapours may form explosive mixture with air.

Conditions to avoid : excessive heat  
 Heat, flames and sparks.  
 Exposure to moisture  
 Heat, flames and sparks.

Incompatible materials : Acids  
 acrylates  
 Alcohols  
 Aldehydes  
 aluminum  
 Copper  
 Copper alloys  
 galvanized metals  
 glycols  
 halogenated hydrocarbons  
 isocyanates  
 Ketones  
 Metals  
 nitrates  
 nitrites and other nitrosating agents  
 organic anhydrides  
 organic solvent  
 peroxides  
 phenols  
 Reducing agents  
 Strong oxidizing agents  
 Zinc  
 Aqueous solutions of this product corrode steel.

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

Hazardous decomposition products : Amines  
Ammonia  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Cyanides  
Nitrogen oxides (NO<sub>x</sub>)  
nitrogen compounds

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Components:****CYCLOHEXYLAMINE:**

Acute oral toxicity : LD 50 (Rat): 432 mg/kg

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The component/mixture is classified as acute dermal toxicity, category 4.

**AMINE:**

Acute oral toxicity : LD50 (Rat): 1,320 mg/kg ca.

Acute inhalation toxicity : LC50 (Rat): ca. 4.6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Guinea pig): ca. 885 mg/kg

**Morpholine:**

Acute oral toxicity : LD50 (Rat): ca. 1,900 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 8 mg/l  
Exposure time: 8 h  
Test atmosphere: vapour  
Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.

Acute dermal toxicity : LD50 (Rabbit): ca. 500 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

**Product:**

Remarks : Causes severe skin burns and eye damage.

**Components:****CYCLOHEXYLAMINE:**

Result : Causes burns.

**AMINE:**

Species : Rabbit  
Result : Corrosive after 3 minutes to 1 hour of exposure

**Morpholine:**

Result : Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:****CYCLOHEXYLAMINE:**

Result : Corrosive to eyes

**AMINE:**

Species : Rabbit  
Result : Corrosive to eyes

**Morpholine:**

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:****AMINE:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****CYCLOHEXYLAMINE:**

Genotoxicity in vitro

: Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: Chinese hamster ovary cells  
Method: OPPTS 870.5300

Test system: rat hepatocytes  
Method: OPPTS 870.5550

**AMINE:**

Genotoxicity in vitro

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo

: Test Type: In vivo micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

**Morpholine:**

Genotoxicity in vitro

: Test Type: unscheduled DNA synthesis assay  
Test system: rat hepatocytes  
Metabolic activation: without metabolic activation  
Method: OECD Test Guideline 482  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

**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**

Suspected of damaging fertility or the unborn child.

**Components:****CYCLOHEXYLAMINE:**

Reproductive toxicity - : Suspected human reproductive toxicant Assessment

**STOT - single exposure**

May cause respiratory irritation.

**Components:****AMINE:**

Target Organs : Respiratory system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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

Remarks : No data available

**Components:****AMINE:**

Remarks : Central nervous system

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

**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:**
**CYCLOHEXYLAMINE:**

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test  
 Test substance: Neutralised product
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 36.3 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 29.3 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 10.3 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): 1.6 mg/l  
 End point: Reproduction Test  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211  
 GLP: yes
- Toxicity to microorganisms : EC10 (activated sludge): 326 mg/l  
 Exposure time: 3 h  
 Test Type: Static

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

Method: ISO 8192

### AMINE:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 147 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: DIN 38412
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 83.6 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: Directive 67/548/EEC, Annex V, C.2.
- Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 5 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: DIN 38412
- EC50 (Desmodesmus subspicatus (green algae)): 44 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: DIN 38412
- Toxicity to microorganisms : EC20 (activated sludge): > 1,000 mg/l  
 Exposure time: 30 min  
 Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

#### CYCLOHEXYLAMINE:

- Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 92 %  
 Exposure time: 20 d  
 Method: Directive 67/548/EEC Annex V, C.4.E.

### AMINE:

- Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 95 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301A  
 GLP: yes

### Morpholine:

- Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 92.6 %  
 Exposure time: 22 d

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

Method: OECD Test Guideline 301E

**Bioaccumulative potential****Components:****CYCLOHEXYLAMINE:**

Partition coefficient: n-octanol/water : log Pow: ca. 1.49

**AMINE:**

Bioaccumulation : Bioconcentration factor (BCF): 0.85

Partition coefficient: n-octanol/water : log Pow: 0.21 (73 °F / 23 °C)  
Method: OECD Test Guideline 107

**Morpholine:**

Partition coefficient: n-octanol/water : log Pow: -0.86

**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.  
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.  
Do not burn, or use a cutting torch on, the empty drum.

---

**SECTION 14. TRANSPORT INFORMATION****International Regulations**

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

### IATA-DGR

UN number	:	UN 2735
Proper shipping name	:	Amines, liquid, corrosive, n.o.s. (MORPHOLINE, CYCLOHEXYLAMINE)
Class	:	8
Packing group	:	II
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851

### IMDG-Code

UN number	:	UN 2735
Proper shipping name	:	AMINES, LIQUID, CORROSIVE, N.O.S. (MORPHOLINE, CYCLOHEXYLAMINE)
Class	:	8
Packing group	:	II
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

#### 49 CFR

UN number	:	UN 2735
Proper shipping name	:	Amines, liquid, corrosive, n.o.s. (MORPHOLINE, CYCLOHEXYLAMINE)
Class	:	8
Packing group	:	II
ERG Code	:	153
Marine pollutant	:	no

### 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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
CYCLOHEXYLAMINE	108-91-8	10000	100000

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

Version: 2.1

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
CYCLOHEXYLAMINE	108-91-8	10000

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)

**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	: On the inventory, or 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
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

The following substance(s) is/are subject to a Significant New Use Rule:

ETHYLENE GLYCOL MONOMETHYL ETHER 109-86-4

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

---

## SECTION 16. OTHER INFORMATION

### Further information

Revision Date : 03/01/2021

## SAFETY DATA SHEET

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Amercor™ 8548-KF CORROSION INHIBITOR  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 877568

Version: 2.1

### Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H331	: Toxic if inhaled.
H335	: May cause respiratory irritation.
H361	: Suspected of damaging fertility or the unborn child.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
STOT SE	: Specific target organ toxicity - single exposure
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
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

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 - 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

**SAFETY DATA SHEET**

Revision Date: 03/01/2021

Print Date: 03/01/2021

SDS Number: 000000270917

Version: 2.1

Amercor™ 8548-KF CORROSION INHIBITOR  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
877568

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