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## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : Amertrol™ HT1510-F deposit inhibitor  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries

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

Use of the Substance/Mixture : Industrial chemical

<b>Details of the supplier of the safety data sheet</b> Solenis Canada ULC 942 Brant St. Burlington, ON L7R 3X8 Canada  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 1-844-SOLENIS (844-765-3647)  <b>Product Information</b> Contact your local Solenis representative
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the Hazardous Products Regulations

This material is not considered hazardous under WHMIS 2015.

### GHS label elements

This material is not considered hazardous under WHMIS 2015.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture


### Components

Chemical name	CAS-No.	Concentration (% w/w)
METHACRYLIC ACID	79-41-4	≥ 0.1 - < 0.5

Actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

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- |   |   |  |
|---|---|--|
| 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                                     | : | 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                                      | : | Remove contact lenses.<br>Protect unharmed eye.  |
| If swallowed  | : | Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.                 |
| Most important symptoms and effects, both acute and delayed | : | No symptoms known or expected.   |
| Notes to physician  | : | No hazards which require special first aid measures.   |

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## SECTION 5. FIREFIGHTING MEASURES

- |   |   |  |
|---|---|--|
| Suitable extinguishing media                  | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Water spray<br>Foam<br>Carbon dioxide (CO2)<br>Dry chemical |
| Specific hazards during firefighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.  |
| Hazardous combustion products                 | : | Carbon monoxide<br>Carbon dioxide (CO2)  |
| Specific extinguishing methods                | : | Product is compatible with standard fire-fighting agents.  |
| Further information                           | : | Standard procedure for chemical fires.   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.   |

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- |  |   |   |
|--|---|---|
| Personal precautions, protective equipment and | : | Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. |
|--|---|---|

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emergency procedures : Comply with all applicable federal, state, and local regulations.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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 : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

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
METHACRYLIC ACID	79-41-4	TWA	20 ppm 70 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWA EV	20 ppm 70 mg/m3	CA QC OEL

**Engineering measures** : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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 : No personal respiratory protective equipment normally required.

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Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:  
 Safety shoes  
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : General industrial hygiene practice.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless, light yellow

Odour : No data available

Odour Threshold : No data available

pH : 5.5 - 7.5

Melting point/freezing point : 0 °C

Initial boiling point and boiling range : 98 - 103 °C

Flash point : Not applicable

Evaporation rate : 0.056

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 : 28 hPa

Relative vapour density : No data available

Relative density : No data available

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Density : 1.07 - 1.13 g/cm<sup>3</sup> (22 °C)

**Solubility(ies)**

Water solubility : miscible

Solubility in other solvents : No data available

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

Decomposition temperature :  
No data available

**Viscosity**

Viscosity, dynamic : 5 - 15 cps ( 22 °C)

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.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity


Not classified based on available information.

### Components:

#### **METHACRYLIC ACID:**

Acute oral toxicity : LD<sub>50</sub> (Rat, male): 1,320 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC 50 (Rat): 4.7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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Acute dermal toxicity : LD50 (Rabbit): 500 - 1,000 mg/kg

#### **Skin corrosion/irritation**

Not classified based on available information.

#### **Components:**

##### **METHACRYLIC ACID:**

Method : OECD Test Guideline 404  
 Result : Corrosive after 3 minutes or less of exposure

#### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Product:**

Remarks : Unlikely to cause eye irritation or injury.

#### **Components:**

##### **METHACRYLIC ACID:**

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:**

##### **METHACRYLIC ACID:**

Test Type : Buehler Test  
 Species : Guinea pig  
 Method : OECD Test Guideline 406

#### **Germ cell mutagenicity**


Not classified based on available information.

#### **Components:**

##### **METHACRYLIC ACID:**

Genotoxicity in vitro : Test Type: Ames test  
 Method: OECD Test Guideline 471  
 Result: negative

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid exchange  
 Species: Rat  
 Cell type: Bone marrow

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Method: OECD Test Guideline 475

Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **METHACRYLIC ACID:**

Effects on fertility : Species: Rat  
 Application Route: Oral  
 Fertility: NOAEL Mating/Fertility: 400 mg/kg body weight  
 Symptoms: No effects on fertility, No effects on reproduction parameters  
 Method: OECD Test Guideline 416

Effects on foetal development : Species: Rabbit  
 Application Route: Oral  
 Developmental Toxicity: NOAEL F1: 450 mg/kg body weight  
 Symptoms: No specific developmental abnormalities  
 Method: OECD Test Guideline 414

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

#### **METHACRYLIC ACID:**

Exposure routes : Inhalation  
 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

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **METHACRYLIC ACID:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 130 mg/l  
Exposure time: 48 h  
Test Type: flow-through test
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l  
End point: Biomass  
Exposure time: 72 h  
Test Type: flow-through test  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): > 10 mg/l  
Exposure time: 35 d  
Test Type: flow-through test  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 53 mg/l  
Exposure time: 21 d  
Test Type: flow-through test  
Method: OECD Test Guideline 211

### Persistence and degradability

#### Components:

##### **METHACRYLIC ACID:**

- Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 87 %  
Exposure time: 28 d


### Bioaccumulative potential

#### Components:

##### **METHACRYLIC ACID:**

- Bioaccumulation : Bioconcentration factor (BCF): 1.0  
Remarks: Bioaccumulation is unlikely.
- Partition coefficient: n-octanol/water : log Pow: 0.93



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#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information : No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### National Regulations

##### TDG

Not regulated as a dangerous good

#### 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.


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### SECTION 15. REGULATORY INFORMATION

#### 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

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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

#### Canadian lists

No substances are subject to a Significant New Activity Notification.

## SECTION 16. OTHER INFORMATION


#### Further information

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#### Full text of other abbreviations

CA AB OEL	: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	: Canada. British Columbia OEL
CA QC OEL	: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
CA AB OEL / TWA	: 8-hour Occupational exposure limit
CA BC OEL / TWA	: 8-hour time weighted average
CA QC OEL / TWA EV	: Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

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NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

#### 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.

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