

**SAFETY DATA SHEET**

Revision Date: 01/30/2018

Print Date: 2/27/2018

SDS Number: R0185316

Version: 1.5

Amersite™ 72 CORROSION INHIBITOR  
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**SECTION 1. IDENTIFICATION**

**Product identifier**

Trade name : Amersite™ 72  
CORROSION INHIBITOR  
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registered in various countries

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

<p><b>Details of the supplier of the safety data sheet</b> Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA)</p> <p>RegulatoryRequestsNA@solenis.com</p>	<p><b>Emergency telephone number</b> 1-844-SOLENIS (844-765-3647)</p> <p><b>Product Information</b> Contact your local Solenis representative</p>
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**SECTION 2. HAZARDS IDENTIFICATION**


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

Eye irritation : Category 2A

Skin sensitisation : Category 1

Carcinogenicity : Category 2

**GHS label elements**

Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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P264 Wash skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.

**Storage:**

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**

Substance / Mixture : Mixture


**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
METHYL ETHYL KETONE OXIME	Trade Secret	Flam. Liq. 4; H227 Acute Tox. 4; H312 Eye Dam. 1; H318 Skin Sens. 1; H317 Carc. 2; H351	>= 1.5 - < 3

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
 Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
 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.

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- If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
 If on skin, rinse well with water.  
 First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.  
 Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Obtain medical attention.  
 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 : Sulfur 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.  
 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.  
 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)  
 respiratory failure  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 Suspected of causing cancer.
- 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.  
 Water spray  
 Foam  
 Carbon dioxide (CO2)  
 Dry chemical
- Unsuitable extinguishing : High volume water jet

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media

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

Hazardous combustion products : sodium monoxide  
 sodium sulfide residue  
 sulfur dioxide  
 toxic fumes  
 Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 methyl ethyl ketone  
 substituted amides  
 Nitrogen oxides (NO<sub>x</sub>)

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**

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.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
 Container hazardous when empty.  
 Avoid exposure - obtain special instructions before use.

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

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
METHYL ETHYL KETONE OXIME	Trade Secret	TWA	10 ppm	US WEEL

**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** : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

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- 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 : clear, light pink, light yellow
- Odour : No data available
- Odour Threshold : No data available
- pH : +/- 0.34 10.7
- : 27 °F
- : > 212 °F  
(1013 hPa)
- Flash point : Not applicable
- Evaporation rate : > 1  
Ethyl Ether
- 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 : 23.3333333 hPa (20 °C)  
Calculated Vapor Pressure
- Relative vapour density : > 1  
AIR=1
- Relative density : No data available
- Density : 1.1 g/cm<sup>3</sup> (20 °C)

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- 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 : excessive heat
- Incompatible materials : Acids  
alkalis  
Strong oxidizing agents  
water
- Hazardous decomposition products : **Sodium oxides**  
**sodium sulfide residue**  
**toxic fumes**  
**Carbon dioxide (CO2)**  
**Carbon monoxide**  
**methyl ethyl ketone**  
**Nitrogen oxides (NOx)**  
**substituted amides**

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Not classified based on available information.

**Product:**

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

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- Acute inhalation toxicity : Remarks: Excessive heat or contact with acids, water and/or ice, releases sulfur dioxide gas which may be harmful or deadly if inhaled.
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:****METHYL ETHYL KETONE OXIME:**

- Acute oral toxicity : LD 50 (Rat, male): 2,326 mg/kg
- Acute inhalation toxicity : LC 50 (Rat): > 4,830 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes
- Acute dermal toxicity : LD 50 (Rabbit, male and female): > 1,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:****METHYL ETHYL KETONE OXIME:**

Species: Rabbit  
Result: Slightly irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks: **Vapours may cause irritation to the eyes, respiratory system and the skin.**  
**Causes serious eye irritation.**  
**Solutions may be severely irritating or cause burns.**

**Components:****METHYL ETHYL KETONE OXIME:**

Species: Rabbit  
Result: Corrosive to eyes  
Method: OECD Test Guideline 405  
GLP: yes





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Species: Rat (male and female)  
Application Route: Oral  
Method: OPPTS 870.5385  
Result: negative  
GLP: yes

**Carcinogenicity**

Suspected of causing cancer.

**Components:****METHYL ETHYL KETONE OXIME:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**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 identified as a carcinogen or potential carcinogen by OSHA.

**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.


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

Remarks: No data available

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

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 7,071 mg/l  
Exposure time: 96 h  
Test Type: static test

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Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

LC 50 (*Pimephales promelas* (fathead minnow)): 4,670 mg/l

Exposure time: 96 h

Test Type: static test

Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

Toxicity to daphnia and other : LC 50 (*Daphnia magna* (Water flea)): 3,790 mg/l

aquatic invertebrates

Exposure time: 48 h

Test Type: static test

#### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

#### Components:

##### METHYL ETHYL KETONE OXIME:

Toxicity to fish : LC 50 (*Oncorhynchus mykiss* (rainbow trout)): 693 mg/l

Exposure time: 96 h

Test Type: static test

Toxicity to daphnia and other : LC 50 (Water flea (*Ceriodaphnia dubia*)): 750.8 mg/l

aquatic invertebrates

Exposure time: 48 h

Test Type: static test

Toxicity to algae : EC50 (*Scenedesmus capricornutum* (fresh water algae)): 11.8 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (*Scenedesmus capricornutum* (fresh water algae)):

2.56 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic : NOEC (*Oryzias latipes* (Orange-red killifish)): 50 mg/l

toxicity)

Exposure time: 14 d

Test Type: flow-through test

Method: OECD Test Guideline 204

GLP: yes

Toxicity to daphnia and other : NOEC (*Daphnia magna* (Water flea)): > 100 mg/l

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aquatic invertebrates  
(Chronic toxicity)

End point: Reproduction Test  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

**Persistence and degradability****Product:**

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days  
2,879 mg/l  
Remarks: Based on a similar product formulation.

Chemical Oxygen Demand (COD) : 56,000 mg/l  
Method: Chemical oxygen demand  
Remarks: Based on a similar product formulation.

**Components:****METHYL ETHYL KETONE OXIME:**

Biodegradability : Biodegradation: 24.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302C

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days  
59 mg/l

Chemical Oxygen Demand (COD) : 880,000 mg/l  
Method: Chemical oxygen demand

**Bioaccumulative potential****Components:****METHYL ETHYL KETONE OXIME:**

Partition coefficient: n-octanol/water : Pow: 0.65 (25 °C)

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**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.



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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.

**U.S. DOT - ROAD**

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	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**

**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** : Serious eye damage or eye irritation  
 Respiratory or skin sensitization  
 Carcinogenicity


**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
- IECSC : On the inventory, or in compliance with the inventory
- TCSI : On the inventory, or in compliance with the inventory

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TSCA : On TSCA Inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

**SECTION 16. OTHER INFORMATION**

**Further information**

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**Full text of H-Statements**

- H227 : Combustible liquid.
- H312 : Harmful in contact with skin.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H351 : Suspected of causing cancer.

**Full text of other abbreviations**

- Acute Tox. : Acute toxicity
- Carc. : Carcinogenicity
- Eye Dam. : Serious eye damage
- Flam. Liq. : Flammable liquids
- Skin Sens. : Skin sensitisation

**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 - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous

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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