



SAFETY DATA SHEET

ANGUS CHEMICAL COMPANY

Product name : CORRGUARD® SI Corrosion Inhibitor

Issue Date: 03/17/2017

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ANGUS CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name CORRGUARD® SI Corrosion Inhibitor

Manufacturer or supplier's details

Company name of supplier ANGUS CHEMICAL COMPANY

Address 1500 E. LAKE COOK ROAD
Buffalo Grove IL 60089-6553

Customer Information 844-474-9969
Number

E-mail address NAR_CC@ANGUS.COM

Emergency telephone **800-424-9300**
number

Recommended use of the chemical and restrictions on use

Recommended use Metalworking corrosion inhibitor
For industrial use.
The ANGUS Chemical Company recommends that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact the Customer Information Group (see Section 1 of this data sheet).

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Components

Chemical Name	CAS-No.	Concentration (% w/w)
Trade secret organic material (Trade secret)	Trade Secret	>= 88.0 %
1-Butoxy-2-propanol	5131-66-8	<= 6.0 %
Impurities (None)	Not Assigned	<= 4.0 %
Water	7732-18-5	<= 2.0 %

4. FIRST AID MEASURES

If inhaled	Move person to fresh air; if effects occur, consult a physician.
In case of skin contact	Wash off with plenty of water.
In case of eye contact	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
If swallowed	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Most important symptoms and effects, both acute and delayed	Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
Protection of first-aiders	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. No specific antidote.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	Water fog or fine spray. Carbon dioxide fire extinguishers. Dry chemical fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
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Unsuitable extinguishing media	Do not use direct water stream. May spread fire.
Specific hazards during firefighting	None known.
Hazardous combustion products	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.
Further information	Avoid accumulation of water. Product may be carried across water surface spreading fire or contracting an ignition source. Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.
Methods and materials for containment and cleaning up	Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid contact with eyes. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.
Conditions for safe storage	Avoid storage at temperatures < 50F (10C); low temperatures will cause the product to solidify and become difficult to

remove from the drum.
 Product can darken if exposed to air for long periods or at elevated temperatures.
 Do not store near Strong oxidizers.
 Do not store in:
 Copper.
 Copper alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
5131-66-8	1-Butoxy-2-propanol	TWA	50 ppm	Dow IHG

Engineering measures

Local exhaust ventilation may be necessary for some operations.
 Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Personal protective equipment

Respiratory protection

Under intended handling conditions, no respiratory protection should be needed.

Hand protection

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Viton. Neoprene. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection

Use safety glasses (with side shields).

Skin and body protection

Wear clean, body-covering clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid or gel-like solid
Color	Yellow to brown
Odor	Mild
Odor Threshold	No test data available
pH	7.9 Method: Measured 0.1% aq. sol.
Melting point/range	No test data available
Freezing point	No test data available
Boiling point/boiling range	> 170 °C (> 338 °F) Method: Estimated.
Flash point	99 °C (210 °F) Method: Setafash Closed Cup ASTM D3828 Test Type: closed cup
Evaporation rate	No test data available
Flammability (solid, gas)	No data available.
Upper explosion limit	No test data available
Lower explosion limit	No test data available
Vapor Pressure	No test data available
Relative Vapor Density (air = 1)	No test data available
Relative density	0.9398 (25 °C) Method: Measured
Water solubility	Slightly soluble
Partition coefficient: n-octanol/water	No test data available
Auto-ignition temperature	No test data available
Decomposition temperature	No test data available
Viscosity Viscosity, dynamic	1,619 mPa.s (25 °C) (Brookfield Viscosity)

Viscosity, kinematic	No test data available
Explosive properties	No data available.
Oxidizing properties	No data available.
Molecular weight	Not available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Thermally stable at typical use temperatures.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Exposure to elevated temperatures can cause product to decompose.
Incompatible materials	Avoid contact with oxidizing materials.
Hazardous decomposition products	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include trace amounts of: Aldehydes. Ketones. Organic acids. Decomposition products can include and are not limited to: Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity

Product:

Acute oral toxicity

Remarks: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.
Low toxicity if swallowed.

LD50 (Rat): > 2,000 mg/kg

Method: Estimated.

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Based on information for component(s):

Acute inhalation toxicity Remarks: At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

Remarks: The LC50 has not been determined.

Acute dermal toxicity Remarks: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50

(Rabbit): > 2,000 mg/kg

Method: Estimated.

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Based on information for component(s):

Components:

Acute oral toxicity LD50 (Rat, male and female): 3,300 mg/kg

Acute inhalation toxicity Remarks: Brief exposure (minutes) is not likely to cause adverse effects.

No relevant data found.

For respiratory irritation and narcotic effects:

LC50 (Rat): > 3.5 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg

Acute oral toxicity LD50 (Rat, male and female): 3,300 mg/kg

Acute inhalation toxicity Remarks: Brief exposure (minutes) is not likely to cause adverse effects.

No relevant data found.

For respiratory irritation and narcotic effects:

LC50 (Rat): > 3.5 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg

Skin corrosion/irritation

Product:

Result: No skin irritation

Remarks: Prolonged contact may cause slight skin irritation with local redness.

Components:

Result: Skin irritation

Remarks: Brief contact may cause moderate skin irritation with local redness.

Result: Skin irritation

Remarks: Brief contact may cause moderate skin irritation with local redness.

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Remarks: May cause slight eye irritation.

Corneal injury is unlikely.

Components:

Result: Mild eye irritation

Remarks: May cause moderate eye irritation.

May cause slight corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Effects are likely to heal readily.

Result: Mild eye irritation

Remarks: May cause moderate eye irritation.

May cause slight corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Effects are likely to heal readily.

Respiratory or skin sensitization

Product:

Remarks: For skin sensitization:

Based on information for component(s):

Did not cause allergic skin reactions when tested in guinea pigs.

Remarks: For respiratory sensitization:

No relevant information found.

Components:

Assessment: Does not cause skin sensitization.

Remarks: For similar material(s):

Did not cause allergic skin reactions when tested in guinea pigs.

Remarks: For respiratory sensitization:
No relevant data found.

Assessment: Does not cause skin sensitization.

Remarks: For similar material(s):
Did not cause allergic skin reactions when tested in guinea pigs.

Remarks: For respiratory sensitization:
No relevant data found.

Carcinogenicity

Product:

No relevant data found.

Components:

No relevant data found.

No relevant data found.

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.

Teratogenicity

Product

Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

Components:

Did not cause birth defects or any other fetal effects in laboratory animals.

Did not cause birth defects or any other fetal effects in laboratory animals.

Mutagenicity

Product

Contains component(s) which were negative in animal genetic toxicity studies.
Contains a component(s) which were negative in in vitro genetic toxicity studies.

Components:

In vitro genetic toxicity studies were negative.

In vitro genetic toxicity studies were negative.

Reproductive toxicity

Product:

Contains component(s) which did not interfere with reproduction in animal studies.

Components:

In animal studies, did not interfere with reproduction. For similar material(s):

In animal studies, did not interfere with reproduction. For similar material(s):

STOT - single exposure

Product:

Assessment: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Components:

Assessment: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Assessment: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Repeated dose toxicity

Product:

Remarks: No relevant data found.

Components:

Remarks: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Remarks: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Aspiration toxicity**Product:**

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Components:

Based on physical properties, not likely to be an aspiration hazard.

Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity**Components:**

Toxicity to fish

Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50 (Poecilia reticulata (guppy)): > 560 mg/l
Exposure time: 96.0 h
Test Type: static test
Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48.0 h
Test Type: static test
Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l
End point: Growth inhibition (cell density reduction)
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201 or EquivalentNOEC (Pseudokirchneriella subcapitata (green algae)): 560 mg/l
End point: Growth inhibition (cell density reduction)
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201 or Equivalent

Toxicity to bacteria

EC50 (Bacteria): > 1,000 mg/l
Exposure time: 3 h
Test Type: static test

Toxicity to fish	<p>Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).</p> <p>LC50 (Poecilia reticulata (guppy)): > 560 mg/l Exposure time: 96.0 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent</p>
Toxicity to daphnia and other aquatic invertebrates	<p>EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48.0 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent</p>
Toxicity to algae	<p>EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l End point: Growth inhibition (cell density reduction) Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 or Equivalent</p> <p>NOEC (Pseudokirchneriella subcapitata (green algae)): 560 mg/l End point: Growth inhibition (cell density reduction) Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 or Equivalent</p>
Toxicity to bacteria	<p>EC50 (Bacteria): > 1,000 mg/l Exposure time: 3 h Test Type: static test</p>

Persistence and degradability

Components:

Biodegradability	<p>Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.</p> <p>Biodegradation: 85 - 92 % Exposure time: 28 d Method: OECD Test Guideline 301C or Equivalent Remarks: 10-day Window: Not applicable</p>
Biochemical Oxygen Demand (BOD)	<p>1.1 - 1.5 % Incubation time: 5 d</p> <p>6.6 - 33.3 % Incubation time: 20 d</p>
ThOD	2.420 mg/mg
Biodegradability	<p>Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.</p>

Biodegradation: 85 - 92 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301C or Equivalent
 Remarks: 10-day Window: Not applicable

Biochemical Oxygen Demand (BOD) 1.1 - 1.5 %
 Incubation time: 5 d

6.6 - 33.3 %
 Incubation time: 20 d

ThOD 2.420 mg/mg

Bioaccumulative potential

Product:

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

Components:

Partition coefficient: n-octanol/water Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

log Pow: 1.2 (20 °C)
 Method: Measured

Partition coefficient: n-octanol/water Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

log Pow: 1.2 (20 °C)
 Method: Measured

Mobility in soil

Components:

Distribution among environmental compartments Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Koc: 1.3 - 6
 Method: Estimated.

Distribution among environmental compartments Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Koc: 1.3 - 6
 Method: Estimated.

14. TRANSPORT INFORMATION

International Regulation

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

49 CFR (DOT) – NON BULK

Not regulated as a dangerous good

49 CFR (DOT) - BULK

Not regulated as a dangerous good

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazards

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.
No SARA Hazards

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

The following chemicals are listed because of the additional requirements of Pennsylvania law:

Cas No.	Component
Trade Secret	
Component(s)	
Trade Secret	
Component(s)	

New Jersey Right To Know

The following chemicals are listed because of the additional requirements of New Jersey law:

Cas No.	Component
Trade Secret	
Component(s)	
Trade Secret	
Component(s)	
7732-18-5	Water
	2-(Methylamino)2-methyl-1-propanol/Tall Oil Fatty Acid Salt

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

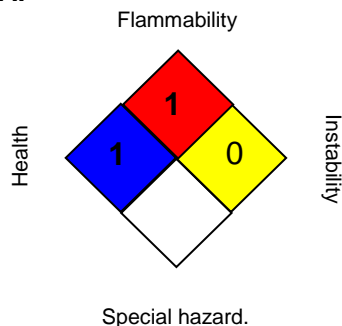
The components of this product are reported in the following inventories:

United States TSCA Inventory
All Components OK

16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

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 Version 0.0

Identification Number: 000040000047

US / EN

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.

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods