

## 1. Identification

<b>Product identifier</b>	<b>Total Hardness Reagent</b>
<b>Product code</b>	R-0854
<b>Recommended use</b>	Use as directed by manufacturer for purposes directly related to water testing.
<b>Recommended restrictions</b>	None known

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

<b>Company name</b>	Taylor Technologies, Inc.	
<b>Address</b>	31 Loveton Circle Sparks, MD 21152 United States	
<b>Telephone</b>	(410) 472-4340	Monday–Friday, 8:00 a.m.–4:30 p.m.
<b>Website</b>	www.taylortechnologies.com	
<b>E-mail</b>	Not available	
<b>Emergency phone number</b>	(800) 837-8548	

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 3
<b>Health hazards</b>	Eye damage/irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.	

### Label elements



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames.-No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical/ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash skin thoroughly after handling. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area.
<b>Response</b>	IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical advice/attention. Call a physician or poison control center if you feel unwell. IN CASE OF FIRE: Use alcohol-resistant foam. Water fog. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified</b>	None
<b>Supplemental information</b>	None

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Triethanolamine	2,2',2''-Nitrilotriethanol; Tris(2-hydroxyethyl)amine	102-71-6	75–80
Isopropanol	Dimethyl carbinol; 2-Propanol; Isopropyl alcohol	67-63-0	20–25
Other components below reportable levels			0.1–5

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention if you feel unwell.
<b>Skin contact</b>	Immediately flush skin with running water for at least 20 minutes. Immediately take off all contaminated clothing. Get medical attention if you feel unwell. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.
<b>Most important symptoms/effects, acute and delayed</b>	<p>Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itching.</p> <p>Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.</p> <p>Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness, and other central nervous system effects.</p> <p>Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea, as well as depression of the central nervous system.</p>
<b>Indication of immediate medical attention and special treatment needed</b>	<p>Provide general supportive measures and treat symptomatically.</p> <p>This product is a CNS depressant.</p>
<b>General information</b>	Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### 5. Firefighting measures

<b>Suitable extinguishing media</b>	Alcohol-resistant foam. Water fog. Carbon dioxide. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can be electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential static discharge, use proper bonding and grounding procedures. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/instructions**

Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-extinguishing water from contaminating surface water or the ground water system.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

Flammable liquid and vapor. This material may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to a source of ignition and flash back.

**Hazardous combustion products**

Carbon oxides. Nitrogen oxides. Peroxides. Other irritating fumes and smoke.

**6. Accidental release measures**

**Personal precautions, protective equipment, and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Ventilate the contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, refer to section 13 of the SDS. Contaminated absorbent material may pose the same hazards as the spilled product.

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

**7. Handling and storage**

**Precautions for safe handling**

Vapors may form explosive mixtures with air. Keep away from sources of ignition. NO SMOKING. Do not handle, store, or open near an open flame, sources of heat or sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in vented containers. Keep away from heat, sparks, and open flames. This material can accumulate static charge which may cause a spark and become an ignition source. Prevent electrostatic charge buildup by using common bonding and grounding techniques. Store in a well-ventilated place. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS).

**8. Exposure controls/personal protection**

**Occupational exposure limits**

**U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Isopropanol (CAS 67-63-0)	PEL	980 mg/m <sup>3</sup>	Not applicable
		400 ppm	Not applicable

**U.S. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Isopropanol (CAS 67-63-0)	STEL	400 ppm	Not applicable
	TWA	200 ppm	Not applicable
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m <sup>3</sup>	Not applicable

**U.S. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m <sup>3</sup>	Not applicable
		500 ppm	Not applicable
	TWA	980 mg/m <sup>3</sup>	Not applicable
		400 ppm	Not applicable

**Biological limit values****U.S. ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	Not available

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency eyewash fountain and quick-drench shower in the immediate work area.

**Skin protection****Hand protection**

Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

**Other**

Wear appropriate chemical-resistant clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

**Thermal hazards**

When necessary, wear appropriate thermal protective clothing.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contamination. Avoid breathing mist or vapor.

**9. Physical and chemical properties****Appearance****Physical state**

Liquid

**Form**

Liquid

**Color**

Dark blue

**Odor**

Ammonical

**Odor threshold**

Not available

**pH**

10.3

**Melting point/freezing point**

Not available

**Initial boiling point and boiling range**

500–600°F (260–315.56°C)

**Flash point**

66.0°F (18.9°C) Closed cup

**Evaporation rate**

Not available

**Flammability (solid, gas)**

Flammable

**Upper/lower flammability or explosive limits****Flammability limit, lower (%)**

Not available

**Flammability limit, upper (%)**

Not available

**Explosive limit, lower (%)**

2%

**Explosive limit, upper (%)**

12%

**Vapor pressure**

Not available

**Vapor density**

2

<b>Relative density</b>	1.02 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in all proportions
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Other information</b>	
<b>Explosive properties</b>	Not applicable
<b>Oxidizing properties</b>	Not applicable
<b>Percent volatile</b>	99%
<b>Specific gravity</b>	1.02

## 10. Stability and reactivity

<b>Reactivity</b>	This product is stable and nonreactive under normal conditions of use, storage, and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use
<b>Conditions to avoid</b>	Heat, sparks, open flames, and other ignition sources. Temperatures exceeding the flash point. Direct sunlight. Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Alkali metals. Aluminum. Oxidizing agents. Potassium t-butoxide. Some plastics. Strong acids.
<b>Hazardous decomposition products</b>	None known. For hazardous combustion products, refer to section 5 of the SDS.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause drowsiness and dizziness. May cause irritation to the respiratory system.
<b>Skin contact</b>	May cause slight or mild transient irritation
<b>Eye contact</b>	May cause severe irritation
<b>Ingestion</b>	May cause irritation, nausea, vomiting, and diarrhea

### Most important symptoms/effects, acute and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness, and other central nervous system effects.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea, as well as depression of the central nervous system.

**Acute toxicity** This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Isopropanol (CAS 67-63-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD <sub>50</sub>	Rabbit	12890 mg/kg
<i>Inhalation</i>		
LC <sub>50</sub>	Rat	17000 ppm, 4 hours (vapor) 41.8 mg/L, 4 hours (vapor)

<i>Oral</i>		
LD <sub>50</sub>	Rat	4720 mg/kg
Triethanolamine (CAS 102-71-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD <sub>50</sub>	Rabbit	>19870 mg/kg
<i>Inhalation</i>		
LC <sub>50</sub>	Rat	Not available
<i>Oral</i>		
LD <sub>50</sub>	Rat	6110 mg/kg
Deionized water (CAS 7732-18-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD <sub>50</sub>	Rabbit	Not available
<i>Inhalation</i>		
LC <sub>50</sub>	Rat	Not available
<i>Oral</i>		
LD <sub>50</sub>	Rat	>89840 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation	
<b>Serious eye damage/eye irritation</b>	Causes severe eye irritation	
<b>Respiratory sensitization</b>	Not expected to be a respiratory sensitizer	
<b>Skin sensitization</b>	Not expected to be a skin sensitizer	
<b>Germ cell mutagenicity</b>	Not expected to be mutagenic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, NTP, OSHA, or U.S. ACGIH.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Triethanolamine (CAS 102-71-6)	3 Not classifiable as to carcinogenicity to humans	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)</b>		
Not regulated		
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity, single exposure</b>	May cause drowsiness or dizziness. May cause respiratory irritation.	
<b>Specific target organ toxicity, repeated exposure</b>	Not classified as a specific target organ toxicity – repeated exposure	
<b>Aspiration toxicity</b>	Not expected to be an aspiration hazard	
<b>Chronic effects</b>	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis. Frequent or prolonged inhalation of fumes or vapors may cause chronic lung conditions such as bronchitis. Frequent or prolonged overexposure may affect the kidneys.	

## 12. Ecological information

**Ecotoxicity** This product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Isopropanol (CAS 67-63-0) – Aquatic		
<b>Acute</b>		
<i>Crustacea</i>		
EC <sub>50</sub>	Water flea ( <i>Daphnia magna</i> )	1400 mg/L, 48 hours
LC <sub>50</sub>	Fathead minnow ( <i>Pimephales promelas</i> )	9640 mg/L, 96 hours
<b>Chronic</b>		
<i>Crustacea</i>		
NOEC	Water flea ( <i>Daphnia magna</i> )	30 mg/L, 21 days

Triethanolamine  
(CAS 102-71-6) – Aquatic

**Acute**

*Algae*

EC<sub>50</sub> Green algae (*Desmodesmus subspicatus*) 512 mg/L, 72 hours

*Crustacea*

EC<sub>50</sub> Water flea (*Ceriodaphnia affinis*) 609.88 mg/L, 48 hours

**Chronic**

*Crustacea*

NOEC Water flea (*Daphnia magna*) 16 mg/L, 21 days

**Persistence and degradability** Not available

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log K<sub>ow</sub>)**

Isopropanol 0.05

(CAS 67-63-0)

Triethanolamine -1

(CAS 102-71-6)

**Bioconcentration factor (BCF)**

Isopropanol 1

(CAS 67-63-0)

**Mobility in soil** Not available

**Other adverse effects** No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion with the user, the producer, and the waste disposal company.

**Waste from residues/unused products** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (refer to Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste-handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transportation information

**DOT**

**UN number** UN1993  
**UN proper shipping name** Flammable liquids, N.O.S. (Isopropanol)  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** Not listed  
**Label(s)** 3  
**Packing group** II  
**Special precautions for user** Read safety instructions, SDS, and emergency procedures before handling.  
**Special provisions** IB2, T7, TP8, TP28  
**Packaging exceptions** 150  
**Packaging, non-bulk** 202  
**Packaging, bulk** 242

**IATA**

**UN number** UN1993  
**UN proper shipping name** Flammable liquids, N.O.S. (Isopropanol)  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** Not listed

<b>Packing group</b>	II
<b>Environmental hazards</b>	Not listed
<b>ERG code</b>	3H
<b>Special precautions for user</b>	Read safety instructions, SDS, and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed
<b>Cargo aircraft only</b>	Allowed

**IMDG**

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquids, N.O.S. (Isopropanol)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	Not listed
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>EmS</b>	F-E, S-E
<b>Special precautions for user</b>	Read safety instructions, SDS, and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.

**DOT**



**IATA; IMDG**



**15. Regulatory information**

**U.S. federal regulations** All components are on the U.S. EPA TSCA Inventory list.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

**CERCLA Hazardous Substance (40 CFR 302.4)**

Isopropanol (CAS 67-63-0)

**SARA 304 Emergency Release Notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)**

Not regulated

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

- Immediate hazard – yes
- Delayed hazard – no
- Fire hazard – yes
- Pressure hazard – no
- Reactivity hazard – no

**SARA 302 Extremely Hazardous Substance**

Not regulated

**SARA 311/312 Hazardous Chemical**



Listed

**SARA 313 (TRI reporting)**

<b>Chemical name</b>	<b>CAS number</b>	<b>% by weight</b>
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Isopropanol	67-63-0	23
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**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP)**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

**Safe Drinking Water Act (SDWA)**

Not regulated

**U.S. state regulations**

**California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not regulated

**Massachusetts Right-to-Know Act**

Isopropanol (CAS 67-63-0)

Triethanolamine (CAS 102-71-6)

**New Jersey Worker and Community Right-to-Know Act**

Isopropanol (CAS 67-63-0)

Triethanolamine (CAS 102-71-6)

**Pennsylvania Worker and Community Right-to-Know Act**

Isopropanol (CAS 67-63-0)

Triethanolamine (CAS 102-71-6)

**Rhode Island Right-to-Know Act**

Isopropanol (CAS 67-63-0)

**California Proposition 65**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** This material contains a chemical known to cause cancer.

**International inventories**

<b>Country(ies) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	yes
Canada	Domestic Substances List (DSL)	yes
Canada	Non-Domestic Substances List (NDSL)	no
China	Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	yes
Europe	European List of Notified Chemical Substances (ELINCS)	no
Japan	Existing and New Chemical Substances (ENCS)	yes
Korea	Existing Chemicals List (ECL)	yes
New Zealand	New Zealand Inventory of Chemical (NZIoC)	yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	yes

\*A "yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(ies).

A "no" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(ies).

**16. Other information, including date of preparation or last revision**

**List of abbreviations**

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CAA: Clean Air Act

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CFR: Code of Federal Regulations

CSA: Canadian Standards Association

DEA: Drug Enforcement Agency

DOT: Department of Transportation

DSL: Domestic Substances List  
 EC: effective concentration  
 ECL: Existing Chemicals List  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 ENCS: Existing and New Chemical Substances  
 EPA: Environmental Protection Agency  
 HAP: hazardous air pollutants  
 HMIS: Hazardous Materials Identification System  
 HNOC: hazards not otherwise classified  
 HPA: Hazardous Products Act  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association  
 IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
 ICAO: International Civil Aviation Organization  
 IECSC: Inventory of Existing Chemical Substances Produced or Imported in China  
 IMDG: International Maritime Dangerous Goods  
 IUCLID: International Uniform Chemical Information Database  
 LC: lethal concentration  
 LD: lethal dose  
 MARPOL: marine pollution  
 MSHA: Mine Safety and Health Administration  
 NDSL: Non-Domestic Substances List  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute of Occupational Safety and Health  
 NOEC: no observable effect concentration  
 NTP: National Toxicology Program  
 NZIoC: New Zealand Inventory of Chemicals  
 OECD: Organisation for Economic Co-operation and Development  
 OEL: occupational exposure limits  
 OSHA: Occupational Safety and Health Administration  
 PEL: permissible exposure limits  
 PICCS: Philippine Inventory of Chemicals and Chemical Substances  
 PPE: personal protective equipment  
 RCRA: Resource Conservation and Recovery Act  
 RQ: reportable quantity  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 RTK: right to know  
 SARA: Superfund Amendments and Reauthorization Act  
 SDS: Safety Data Sheet  
 SDWA: Safe Drinking Water Act  
 STEL: short-term exposure limit  
 TLV: threshold limit values  
 TSCA: Toxic Substances Control Act  
 TWA: time-weighted average  
 VOC: volatile organic compounds  
 WEL: workplace exposure limit

**Disclaimer**

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**Issue date**

May 2015

**Last revision**

May 2015