

## 1. Identification

**Product identifier** **Phenolphthalein Indicator**  
**Product code** R-0638; R-0638BR; R-0638G; R-0638O; R-0638W  
**Recommended use** Use as directed by manufacturer for purposes directly related to water testing.  
**Recommended restrictions** None known

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

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

## 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2  
**Health hazards** Carcinogenicity Category 1B  
Eye damage/irritation Category 2A  
Germ cell mutagenicity Category 2  
Specific target organ toxicity, single exposure Category 3 narcotic effects  
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation  
**Environmental hazards** Not currently regulated by OSHA; refer to section 12 of the SDS for additional information.

### Label elements



**Signal word** Danger  
**Hazard statement** Highly flammable liquid and vapor. May cause cancer. Causes serious eye irritation. Suspected of causing genetic defects. May cause respiratory irritation. May cause drowsiness or dizziness.

### Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.

**Response** IF EXPOSED OR CONCERNED: Get medical advice/attention.  
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.  
Call a physician or poison control center if you feel unwell.  
IF EYE IRRITATION PERSISTS: Get medical advice/attention.  
IN CASE OF FIRE: Use alcohol resistant foam, carbon dioxide, dry chemical, water fog, water spray to extinguish. Sand or earth can be used for small fires only.

**Storage** Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified** None  
**Supplemental information** None

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Deionized water	Dihydrogen oxide	7732-18-5	50–60
Isopropanol	Dimethyl carbinol; 2-Propanol; Isopropyl alcohol	67-63-0	40–50
Phenolphthalein	3,3-Bis(4-hydroxyphenyl)phthalide	77-09-8	0.1–1

### 4. First-aid measures

**Inhalation** Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention immediately.

**Skin contact** Immediately flush skin with running water for at least 20 minutes. Immediately take off all contaminated clothing. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion** 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.

**Most important symptoms/effects, acute and delayed**  
Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin.  
Direct contact with concentrated solutions may be harmful to the eyes and may cause severe damage including blindness. 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 problems.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea, as well as depression of the central nervous system.  
Possible germ cell hazard. May cause heritable genetic damage, based on animal data.  
Possible cancer hazard. May cause cancer, based on animal data.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically.  
This product is a CNS depressant.

**General information** Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### 5. Firefighting measures

**Suitable extinguishing media** Alcohol-resistant foam. Carbon dioxide. Dry chemical powder. Water fog. Sand or earth may be used for small fires only.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** 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.

**Special protective equipment and precautions for firefighters**

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. 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**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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 a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. 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

**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. Eyewash facilities and emergency shower must be available when handling this product.

**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 approved respirator if there is a risk of exposure to dust/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.

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

Liquid

**Form**

Liquid

**Color**

Clear, colorless

**Odor**

Alcohol

**Odor threshold**

Odorless

**pH**

Not available

**Melting point/freezing point**

Not available

**Initial boiling point and boiling range**

180°F (82.22°C)

**Flash point**

62°F (16.7°C) Closed cup

**Evaporation rate**

Not available

**Flammability (solid, gas)**

Flammable

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

Not applicable

**Flammability limit, upper (%)**

Not applicable

<b>Explosive limit, lower (%)</b>	2%
<b>Explosive limit, upper (%)</b>	12%
<b>Vapor pressure</b>	25 mm Hg
<b>Vapor density</b>	1.6
<b>Relative density</b>	0.9 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>	0.9

## 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>	Combustible materials. Reducing agents.
<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
<b>Most important symptoms/effects, acute and delayed</b>	<p>Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin.</p> <p>Direct contact with concentrated solutions may be harmful to the eyes and may cause severe damage including blindness. 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 problems.</p> <p>Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea, as well as depression of the central nervous system.</p> <p>Possible germ cell hazard. May cause heritable genetic damage, based on animal data.</p> <p>Possible cancer hazard. May cause cancer, based on animal data.</p>
<b>Acute toxicity</b>	This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.

Components	Species	Test Results
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)
<i>Oral</i>		
LD <sub>50</sub>	Rat	4720 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>	May cause slight or mild transient irritation	
<b>Serious eye damage/eye irritation</b>	May cause severe 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>	May cause genetic defects	
<b>Carcinogenicity</b>	May cause cancer	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Phenolphthalein (CAS 77-09-8)	2B possibly carcinogenic to humans	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)</b>		
Not regulated		
<b>U.S. National Toxicology Program (NTP) Report on Carcinogens</b>		
Phenolphthalein (CAS 77-09-8)	Reasonably anticipated to be a human carcinogen	
<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** Very toxic to aquatic life

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

**Chronic**

Crustacea

NOEC

Water flea (*Daphnia magna*)

30 mg/L, 21 days

**Persistence and degradability** Not available**Bioaccumulative potential** Not available**Partition coefficient n-octanol / water (log K<sub>ow</sub>)**Isopropanol  
(CAS 67-63-0) 0.05**Bioconcentration factor (BCF)**Isopropanol  
(CAS 67-63-0) 1**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 of in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.**Local disposal regulations** Dispose of 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**

<b>UN number</b>	UN1219
<b>UN proper shipping name</b>	Isopropanol solution
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	Not listed
<b>Label(s)</b>	3
<b>Packing group</b>	II
<b>Special precautions for user</b>	Read safety instructions, SDS, and emergency procedures before handling.
<b>Special provisions</b>	IB2, T4, TP1
<b>Packaging exceptions</b>	150
<b>Packaging, non-bulk</b>	202
<b>Packaging, bulk</b>	242

**IATA**

<b>UN number</b>	UN1219
<b>UN proper shipping name</b>	Isopropanol solution
<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>	No
<b>ERG code</b>	3L
<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>	UN1219
<b>UN proper shipping name</b>	Isopropanol solution
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	Not listed

**Packing group** II  
**Environmental hazards**  
**Marine pollutant** No  
**EmS** F-E, S-D  
**Special precautions for user** 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** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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 – yes  
 Fire hazard – yes  
 Pressure hazard – no  
 Reactivity hazard – no

### SARA 302 Extremely Hazardous Substance

Not regulated

### SARA 311/312 Hazardous Chemical

Not regulated

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by weight
Isopropanol	67-63-0	40–50
Phenolphthalein	77-09-8	0.1–1



## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

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)

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

Isopropanol (CAS 67-63-0)

Phenolphthalein (CAS 77-09-8)

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

Isopropanol (CAS 67-63-0)

### Rhode Island Right-to-Know Act

Isopropanol (CAS 67-63-0)

Phenolphthalein (CAS 77-09-8)

### California Proposition 65

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

### U.S. - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Phenolphthalein                      Listed: May 15, 1998

## International inventories

Country(ies) or region	Inventory name	On inventory (yes/no)*
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)	no
Korea	Existing Chemicals List (ECL)	yes
New Zealand	New Zealand Inventory of Chemicals (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  
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**

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**Last revision**

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