

RAMUC®



RAMUC TYPE EP WHITE 1 GAL KIT 26630

Version 1.1
REVISION DATE: 08/31/2006

Print Date 11/11/2008

This is a kit that contains the following components:

RAMUC TYPE EP WHITE PART A

RAMUC TYPE EP PART B

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RAMUC TYPE EP WHITE PART A

Version 1.1
REVISION DATE: 08/31/2006

Print Date 11/11/2008

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : RAMUC TYPE EP WHITE PART A
Product code : 908131101FC

COMPANY : Republic Powdered Metals
2628 Pearl Road
Medina, OH 44256

Telephone : (800) 551-7081
Emergency Phone: : After Hours: Chemtrec 1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

White. Liquid solution. Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness.
Eyes : Direct contact may cause mild irritation. May cause temporary injury.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Overexposure to methyl isobutyl ketone can cause narcosis and can adversely affect the central nervous system and cardiovascular system. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Prolonged or repeated exposure to vapors of isopropyl alcohol can cause eye, skin, or respiratory irritation, headache, dizziness, nausea, in coordination, drowsiness, and loss of consciousness. Prolonged or repeat exposure to liquid can cause defatting, drying, and irritation of the skin dermatitis. Overexposure to n-butyl alcohol caused anemia, liver abnormalities, eye, kidney and lung damage in experimental animals. Can cause eye damage in humans and effect hearing if exposed to vapor concentrations of over 50 ppm. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung

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SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Titanium dioxide	13463-67-7	30.0 - 60.0
Epoxy resin	25036-25-3	30.0 - 60.0
Xylene	1330-20-7	10.0 - 30.0
Methyl isobutyl ketone	108-10-1	7.0 - 13.0
n-Butyl glycidyl ether	2426-08-6	3.0 - 7.0
Ethylbenzene	100-41-4	1.0 - 5.0
n-Butanol	71-36-3	1.0 - 5.0
2-Propanol	67-63-0	1.0 - 5.0

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	:	Flush with water for 15 minutes. If irritation persists, get medical attention.
Skin contact	:	Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	:	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point	:	60 °F, 16 °C
Method	:	Tag closed cup
Lower explosion limit	:	1 %(V) Solvent
Upper explosion limit	:	11.2 %(V) Solvent
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Smoke, fumes. Carbon monoxide and carbon dioxide can form.
Protective equipment for firefighters	:	Water may be used to cool containers to minimize pressure build-up. Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

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Fire and explosion conditions : Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapors. Vapor concentrations in enclosed areas may ignite explosively. Vapors may travel to sources of ignition and flashback.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Store under dry warehouse conditions away from heat and all ignition sources. Store in a cool, well ventilated area. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protection equipment**

Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.

Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye protection : Chemical splash goggles.

Protective measures : Use professional judgment in the selection, care, and use.

Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Methyl isobutyl ketone	108-10-1	ACGIH TWA: ACGIH STEL: OSHA PEL:	50 ppm 75 ppm 410 mg/m3	
n-Butyl glycidyl ether	2426-08-6	ACGIH TWA: OSHA PEL:	25 ppm 270 mg/m3	
Ethylbenzene	100-41-4	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 125 ppm 435 mg/m3	
n-Butanol	71-36-3	ACGIH TWA: OSHA PEL:	20 ppm 300 mg/m3	
2-Propanol	67-63-0	ACGIH TWA: ACGIH STEL: OSHA PEL:	200 ppm 400 ppm 980 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid solution
Color	: White
Odor	: Solvent
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: 237 - 243 °F, 114 - 117 °Cat 760 mmHg
Water solubility	: Slightly soluble
Specific Gravity	: 1.23
% Volatile Weight	: 26 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Epoxy curing agents.Amines and oxidizing agents.
Stability	: Material is stable under normal storage, handling, and use.
Hazardous polymerization	: Will not occur.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Xylene, CAS-No.: 1330-20-7	
Acute oral toxicity (LD-50 oral)	3,523 - 8,600 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	6,350 mg/l (Rat)
Methyl isobutyl ketone, CAS-No.: 108-10-1	
Acute oral toxicity (LD-50 oral)	2,080 mg/kg (Rat)
n-Butyl glycidyl ether, CAS-No.: 2426-08-6	
Acute oral toxicity (LD-50 oral)	2,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	670 mg/l (Rat) 3,500 mg/l (Mouse)
Ethylbenzene, CAS-No.: 100-41-4	
Acute oral toxicity (LD-50 oral)	3,500 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	17,800 mg/kg (Rabbit)
n-Butanol, CAS-No.: 71-36-3	
Acute oral toxicity (LD-50 oral)	790 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	8,000 mg/l (Rat)
Acute dermal toxicity (LD-50 dermal)	3,400 mg/kg (Rabbit)
2-Propanol, CAS-No.: 67-63-0	
Acute oral toxicity (LD-50 oral)	4,700 - 5,800 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	5,030 - 7,900 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)

This classification applies only to the material as it was originally produced.

Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA**TDG / DOT Shipping Description:**

PAINT, 3, UN1263, PG II

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SECTION 15 - REGULATORY INFORMATION**North American Inventories:**

All components are listed or exempt from the TSCA inventory.
 This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components	:	Xylene	1330-20-7
		Methyl isobutyl ketone	108-10-1
		Ethylbenzene	100-41-4
		n-Butanol	71-36-3

SARA 311/312 Hazards	:	Acute Health Hazard
		Fire Hazard

OSHA Hazardous Components :

Titanium dioxide	13463-67-7
Xylene	1330-20-7
Methyl isobutyl ketone	108-10-1
n-Butyl glycidyl ether	2426-08-6
Ethylbenzene	100-41-4
n-Butanol	71-36-3
2-Propanol	67-63-0

OSHA Status: Considered hazardous based on the following criteria:	:	Irritant
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OSHA Flammability	:	IB
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Regulatory VOC (less water and exempt solvent)	:	325 g/l
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VOC Method 310	:	26 %
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U.S. State Regulations:

MASS RTK Components	:	Titanium dioxide	13463-67-7
		Xylene	1330-20-7
		Methyl isobutyl ketone	108-10-1
		n-Butyl glycidyl ether	2426-08-6
		Ethylbenzene	100-41-4
		n-Butanol	71-36-3
		2-Propanol	67-63-0

Penn RTK Components	:	Titanium dioxide	13463-67-7
		Epoxy resin	25036-25-3
		Xylene	1330-20-7



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	Methyl isobutyl ketone	108-10-1
	n-Butyl glycidyl ether	2426-08-6
	Ethylbenzene	100-41-4
	n-Butanol	71-36-3
	2-Propanol	67-63-0
NJ RTK Components	:	
	Titanium dioxide	13463-67-7
	Epoxy resin	25036-25-3
	Xylene	1330-20-7
	Methyl isobutyl ketone	108-10-1
	n-Butyl glycidyl ether	2426-08-6
	Amorphous Silica	112926-00-8
	Ethylbenzene	100-41-4
	n-Butanol	71-36-3
	2-Propanol	67-63-0

Chemicals known to the State of California to cause cancer birth defects and/or other reproductive harm:

100-41-4	Ethylbenzene
108-88-3	Toluene
14808-60-7	Crystalline Silica (Quartz)/ Silica Sand

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	3
Flammability	3
Reactivity	0
PPE	

- 0 = Minimum
- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

- | | |
|--------------------------------------------------------------------------------|-----------------------------------------------------|
| ACGIH - American Conference of Governmental Hygienists | PEL - Permissible Exposure Limit |
| CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act | RCRA - Resource Conservation and Recovery Act |
| DOT - Department of Transportation | RTK - Right To Know |
| NTP - National Toxicology Program | SARA - Superfund Amendments and Reauthorization Act |
| EPA - Environmental Protection Agency | STEL - Short Term Exposure Limit |
| HMIS - Hazardous Materials Information System | TLV - Threshold Limit Value |
| IARC - International Agency for Research on Cancer | TSCA - Toxic Substances Control Act |
| MSHA - Mine Safety Health Administration | TWA - Time Weighted Average |
| NDSL - Non-Domestic Substance List | V - Volume |

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NIOSH - National Institute for Occupational Safety and Health
DSL - Domestic Substance List
OSHA - Occupational Safety and Health Administration

VOC - Volatile Organic Compound
WHMIS - Workplace Hazardous Materials Information System

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SECTION 1 - PRODUCT IDENTIFICATION

Trade name : RAMUC TYPE EP PART B
Product code : 908131101FC

COMPANY : Republic Powdered Metals
2628 Pearl Road
Medina, OH 44256

Telephone : (800) 551-7081
Emergency Phone: : After Hours: Chemtrec 1-800-424-9300

Product use : Curative

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Amber. Liquid. May cause slight irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Remove to fresh air. Get immediate medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause slight irritation to the respiratory system.
Eyes : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting. May cause chemical burns to stomach, mouth, nose, and throat.
Skin : May cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage. May cause sensitization resulting in irritation, itching and redness. May cause a rash.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

May cause sensitization by contact. Prolonged skin contact may cause irritation, burns or dermatitis. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. May aggravate persons sensitized to amines. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

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SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Polyamide resin	NJTSRN# 51721300-5364P	> 60.0
Xylene	1330-20-7	30.0 - 60.0
Triethylenetetramine	112-24-3	5.0 - 10.0

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

- Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Remove to fresh air. Get immediate medical attention.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point : 85 °F, 29 °C
- Method : Tag Closed Cup
- Lower explosion limit : 1 %(V) Solvent
- Upper explosion limit : 7 %(V) Solvent
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes. Nitrogen oxides can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
- Fire and explosion conditions : Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protection equipment**

- Respiratory protection : Wear NIOSH/MSHA approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
- Protective measures : Inspect and replace equipment at regular intervals. Use professional judgment in the selection, care, and use.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid
- Color : Amber

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Odor	: Amine
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Partially soluble
Specific Gravity	: 0.93
% Volatile Weight	: 30 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Oxidizing agents.Epoxies.Isocyanates.Acids.
Stability	: Material is stable under normal storage, handling, and use.
Hazardous polymerization	: Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Xylene, CAS-No.: 1330-20-7	
Acute oral toxicity (LD-50 oral)	3,523 - 8,600 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	6,350 mg/l (Rat)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)

This classification applies only to the material as it was originally produced.

Disposal Method : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

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SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:

PAINT, 3, UN1263, PG III

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.
 This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components : Xylene 1330-20-7

SARA 311/312 Hazards : Acute Health Hazard
 Fire Hazard

OSHA Hazardous Components :

Xylene 1330-20-7

OSHA Status: Considered : Irritant
 hazardous based on the
 following criteria:

OSHA Flammability : IC

Regulatory VOC (less water and
 exempt solvent) : 279 g/l

VOC Method 310 : 30 %

U.S. State Regulations:

MASS RTK Components : Xylene 1330-20-7
 Triethylenetetramine 112-24-3

Penn RTK Components : Polyamide resin NJTSRN# 51721300-5364P
 Xylene 1330-20-7
 Triethylenetetramine 112-24-3

NJ RTK Components : Polyamide resin NJTSRN# 51721300-5364P
 Xylene 1330-20-7
 Triethylenetetramine 112-24-3

Chemicals known to the State of California to cause cancer birth defects and/or other reproductive harm:

None known.



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SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	3
Flammability	3
Reactivity	0
PPE	

0 = Minimum
 1 = Slight
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 3 = Serious
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Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists
 CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
 DOT - Department of Transportation
 NTP - National Toxicology Program
 EPA - Environmental Protection Agency
 HMIS - Hazardous Materials Information System
 IARC - International Agency for Research on Cancer
 MSHA - Mine Safety Health Administration
 NDSL - Non-Domestic Substance List
 NIOSH - National Institute for Occupational Safety and Health
 DSL - Domestic Substance List
 OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit
 RCRA - Resource Conservation and Recovery Act
 RTK - Right To Know
 SARA - Superfund Amendments and Reauthorization Act
 STEL - Short Term Exposure Limit
 TLV - Threshold Limit Value
 TSCA - Toxic Substances Control Act
 TWA - Time Weighted Average
 V - Volume
 VOC - Volatile Organic Compound
 WHMIS - Workplace Hazardous Materials Information System