

	Page: 1
SAFETY DATA SHEET	Revision Date: 11/07/2016
	Print Date: 2/28/2018
	SDS Number: R0718539
Gantrez™ ES-225 polymer ™ Trademark, Ashland or its subsidiaries, registered in various countries 828359	Version: 1.1

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Gantrez™ ES-225
polymer
™ Trademark, Ashland or its subsidiaries, registered in
various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Cosmetic additive

Details of the supplier of the safety data sheet Ashland P.O. Box 2219 Columbus, OH 43216 United States of America EHSProductSafety@ashland.com	Emergency telephone number 1-800-ASHLAND (1-800-274-5263) Regulatory Information Number 1-800-325-3751 Product Information 614-790-3333
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Eye irritation : Category 2A

Specific target organ
systemic toxicity - single
exposure : Category 3 (Central nervous system)

GHS Label element



SAFETY DATA SHEET

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 828359

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: Highly flammable liquid and vapor.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.

Precautionary Statements

: **Prevention:**
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/ eye protection/ face protection.
Response:
 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 POISON CENTER or doctor/ physician if you feel unwell.
 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.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
Disposal:
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
ETHANOL	64-17-5	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	52.00

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or
you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Move to fresh air.
If unconscious place in recovery position and seek medical
advice.
Consult a physician after significant exposure.

In case of skin contact : If on skin, rinse well with water.
First aid is not normally required. However, it is
recommended that exposed areas be cleaned by washing
with soap and water.
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

		Page: 4
SAFETY DATA SHEET		Revision Date: 11/07/2016
		Print Date: 2/28/2018
		SDS Number: R0718539
Gantrez™ ES-225 polymer ™ Trademark, Ashland or its subsidiaries, registered in various countries 828359		Version: 1.1

Most important symptoms and effects, both acute and delayed : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

- stomach or intestinal upset (nausea, vomiting, diarrhea)
- irritation (nose, throat, airways)
- Cough
- confusion
- irregular heartbeat
- respiratory failure
- Causes serious eye irritation.
- May cause drowsiness or dizziness.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

- Water spray
- Foam
- Alcohol-resistant foam
- Carbon dioxide (CO₂)
- Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide

- formaldehyde-like
- Hydrocarbons

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Remove all sources of ignition.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information : Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Open drum carefully as content may be under pressure.
Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Take precautionary measures against static discharges.
Avoid exposure - obtain special instructions before use.



SAFETY DATA SHEET

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 828359

Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the
 application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national
 regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated
 place.
 Containers which are opened must be carefully resealed and
 kept upright to prevent leakage.
 Observe label precautions.
 No smoking.
 Electrical installations / working materials must comply with
 the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION


Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHANOL	64-17-5	REL	1,000 ppm 1,900 mg/m3	NIOSH/GUID E
		PEL	1,000 ppm 1,900 mg/m3	OSHA_TRA NS
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	Z1A

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)
 ventilation to maintain exposure below exposure guidelines (if
 applicable) or below levels that cause known, suspected or
 apparent adverse effects.

Personal protective equipment

Respiratory protection : A NIOSH-approved air-purifying respirator with an appropriate
 cartridge and/or filter may be permissible under certain
 circumstances where airborne concentrations are expected to
 exceed exposure limits (if applicable) or if overexposure has
 otherwise been determined. Protection provided by air-
 purifying respirators is limited. Use a positive pressure, air-

		Page: 7
SAFETY DATA SHEET		Revision Date: 11/07/2016
		Print Date: 2/28/2018
		SDS Number: R0718539
Gantrez™ ES-225 polymer ™ Trademark, Ashland or its subsidiaries, registered in various countries 828359		Version: 1.1

supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
Skin and body protection	: Wear as appropriate: impervious clothing Safety shoes Flame-resistant clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures	: Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: viscous
Physical state	: liquid
Colour	: clear
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 173.3 °F / 78.5 °C
Flash point	: 45.9 °F / 7.7 °C
Evaporation rate	: No data available

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 53.3 hPa (19 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 0.983 g/cm³ (25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

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

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

excessive heat

Incompatible materials : Acids
Alkali metals
Ammonia
Bases
halogens
inorganic materials
Oxidizing agents
sodium

Hazardous decomposition
products

carbon dioxide and carbon monoxide
formaldehyde-like
Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

ETHANOL:

Acute oral toxicity : LD 50 (Rat): 7,060 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 117 - 125 mg/l
Exposure time: 4 h

LC 50 (Mouse): 39 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD Lo (Rabbit): 20 g/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

	Page: 10
SAFETY DATA SHEET	Revision Date: 11/07/2016
	Print Date: 2/28/2018
	SDS Number: R0718539
Gantrez™ ES-225 polymer ™ Trademark, Ashland or its subsidiaries, registered in various countries 828359	Version: 1.1

Components:

ETHANOL:

Result: Slightly irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

ETHANOL:

Result: Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

ETHANOL:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Carcinogenicity:

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.

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

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.

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

ETHANOL:

Toxicity to fish : LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss)): 12,000 - 16,000 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test

Persistence and degradability**Components:**

No data available

Bioaccumulative potential**Components:**

ETHANOL:

Partition coefficient: n-octanol/water : log Pow: -0.31

Mobility in soil**Components:**

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

Components:

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

General advice

- : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging

- : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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MX_DG

UN	1866	Resin solution	3	II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1866	Resin solution	3	II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1866	Resin solution	3	II	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1866	RESIN SOLUTION	3	II	
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TDG_INWT_C

**SAFETY DATA SHEET**

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828359

UN	1866	RESIN SOLUTION	3	II

TDG_RAIL_C

UN	1866	RESIN SOLUTION	3	II

TDG_ROAD_C

UN	1866	RESIN SOLUTION	3	II

U.S. DOT - INLAND WATERWAYS

UN	1866	Resin solution	3	II

CFR_RAIL_C

UN	1866	Resin solution	3	II

U.S. DOT - ROAD

UN	1866	RESINA, SOLUCIONES DE	3	II

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 313 : This material does not contain any chemical components with
Component(s)SARA 313 known CAS numbers that exceed the threshold (De Minimis)
reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know
ETHANOL 64-17-5 50.00 - 70.00 %



SAFETY DATA SHEET

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 828359

MALEIC ACID MONOETHYL ESTER VINYL 25087-06-3 50.00 - 70.00 %
 METHYL ETHER COPOLYMER

New Jersey Right To Know

ETHANOL 64-17-5 50.00 - 70.00 %

MALEIC ACID MONOETHYL ESTER VINYL 25087-06-3 50.00 - 70.00 %
 METHYL ETHER COPOLYMER

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:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AUSTR : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECL : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)



SAFETY DATA SHEET

Revision Date: 11/07/2016

Print Date: 2/28/2018

SDS Number: R0718539

Version: 1.1

Gantrez™ ES-225 polymer
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 828359

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 11/07/2016

NFPA:	HMIS III:						
<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td>HEALTH</td><td>2</td></tr> <tr> <td>FLAMMABILITY</td><td>3</td></tr> <tr> <td>PHYSICAL HAZARD</td><td>0</td></tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	2	FLAMMABILITY	3	PHYSICAL HAZARD	0
HEALTH	2						
FLAMMABILITY	3						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.


Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

		Page: 16
SAFETY DATA SHEET		Revision Date: 11/07/2016
		Print Date: 2/28/2018
		SDS Number: R0718539
Gantrez™ ES-225 polymer ™ Trademark, Ashland or its subsidiaries, registered in various countries 828359		Version: 1.1

ACGIH : American Conference of Industrial Hygienists
 BEI : Biological Exposure Index
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
 FG : Food grade
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
 H-statement : Hazard Statement
 IATA : International Air Transport Association.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
 IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System