

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/09/2016

Reviewed on 08/16/2016

1 Identification

- **Product identifier**
- **Trade name:** CHEMLINER
- **Article number:** CHEMLINER
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
CHEMTEC 913 Michelin Laval Québec (Canada) H7L-5B6
450-629-1717
- **Information department:** Product safety department
- **Emergency telephone number:**
EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887

· Classification of the substance or mixture

Flammable Liquids - Category 3	H226 Flammable liquid and vapour.
Skin Irritation - Category 2	H315 Causes skin irritation.
Eye Irritation - Category 2A	H319 Causes serious eye irritation.
Respiratory Sensitizer - Category 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitizer - Category 1	H317 May cause an allergic skin reaction.
Germ Cell Mutagenicity - Category 1B	H340 May cause genetic defects.
Carcinogenicity - Category 1B	H350 May cause cancer.
Reproductive Toxicity - Category 1	H360 May damage fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure - Category 3	H335 May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure - Category 2	H373 May cause damage to organs through prolonged or repeated exposure.

· Label elements

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



· Signal word Danger

· Hazard-determining components of labeling:

- 4,4'-methylenediphenyl diisocyanate
- Solvent naphtha (petroleum), light arom.
- 4-methyl-m-phenylene diisocyanate
- 2-methyl-m-phenylene diisocyanate

· Hazard statements

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.

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*H319 Causes serious eye irritation.**H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**H317 May cause an allergic skin reaction.**H340 May cause genetic defects.**H350 May cause cancer.**H360 May damage fertility or the unborn child.**H335 May cause respiratory irritation.**H373 May cause damage to organs through prolonged or repeated exposure.***· Precautionary statements***Keep out of reach from children.**P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read label before use.**P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P241 Use explosion-proof [electrical/ventilating/lighting] equipment.**P260 Do not breathe dust/fume/gas/mist/vapours/spray.**P284 [In case of inadequate ventilation] wear respiratory protection.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P240 Ground and bond container and receiving equipment.**P242 Use non-sparking tools.**P243 Take actions to prevent static discharges.**P264 Wash thoroughly after handling.**P271 Use only outdoors or in a well-ventilated area.**P272 Contaminated work clothing should not be allowed out of the workplace.**P201 Obtain special instructions before use.**P202 Do not handle until all safety precautions have been read and understood.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P321 Specific treatment (see on this label).**P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P312 Call a POISON CENTER/doctor if you feel unwell.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P333+P313 If skin irritation or rash occurs: Get medical advice/attention.**P337+P313 If eye irritation persists: Get medical advice/attention.**P314 Get medical advice/attention if you feel unwell.**P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.**P362+P364 Take off contaminated clothing and wash it before reuse.**P405 Store locked up.**P403+P233 Store in a well-ventilated place. Keep container tightly closed.**P403+P235 Store in a well-ventilated place. Keep cool.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· Hazard description:****· WHMIS-symbols:***B2 - Flammable liquid**D2A - Very toxic material causing other toxic effects*

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· **Classification system:**· **NFPA ratings (scale 0 - 4)**· **HMIS-ratings (scale 0 - 4)**· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

1330-20-7	xylene	10-30%% w/w
101-68-8	4,4'-methylenediphenyl diisocyanate	5-10%% w/w
64742-95-6	Solvent naphtha (petroleum), light arom.	1-5%% w/w
1333-86-4	Carbon black	0.1-1%% w/w
584-84-9	4-methyl-m-phenylene diisocyanate	0.1-1%% w/w
91-08-7	2-methyl-m-phenylene diisocyanate	0.1-1%% w/w
872-50-4	N-methyl-2-pyrrolidone	0.1-1%% w/w

· **SVHC**

872-50-4	N-methyl-2-pyrrolidone
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4 First-aid measures

· **Description of first aid measures**· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

1330-20-7 xylene

EL Short-term value: 150 ppm
Long-term value: 100 ppm

EV Short-term value: 650 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

101-68-8 4,4'-methylenediphenyl diisocyanate

EL Long-term value: 0.005 ppm
Ceiling limit value: 0.01 ppm
Skin; S

EV Long-term value: 0.005 ppm
Ceiling limit value: 0.02 ppm

1333-86-4 Carbon black

EL Long-term value: 3 mg/m³
IARC 2B

EV Long-term value: 3.5 mg/m³

584-84-9 4-methyl-m-phenylene diisocyanate

EL Long-term value: 0.005 ppm
Ceiling limit value: 0.01 ppm
IARC 2B; S

EV Long-term value: 0.005 ppm
Ceiling limit value: 0.02 ppm

91-08-7 2-methyl-m-phenylene diisocyanate

EL Long-term value: 0.005 ppm
Ceiling limit value: 0.01 ppm
IARC 2B; S

EV Long-term value: 0.005 ppm
Ceiling limit value: 0.02 ppm

872-50-4 N-methyl-2-pyrrolidone

EV Long-term value: 400 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

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Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

R

Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Fluid

Color: Black

- **Odor:** Aromatic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 137 °C

- **Flash point:** 30 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 500 °C

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower: 1.1 Vol %

Upper: 7.0 Vol %

- **Vapor pressure at 20 °C:** 6.7 hPa

- **Density at 20 °C:** 1.01 g/cm³

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

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Trade name : **C H E M L I N E R**

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- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD50	2200 mg/kg (mouse)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

584-84-9 4-methyl-m-phenylene diisocyanate

Oral	LD50	5800 mg/kg (rat)
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- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
- **Sensitization:**
 - Sensitization possible through inhalation.
 - Sensitization possible through skin contact.
- **Additional toxicological information:**
 - The product shows the following dangers according to internally approved calculation methods for preparations:
 - Harmful
 - Irritant
 - The product can cause inheritable damage.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	3
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
1333-86-4	Carbon black	2B
14808-60-7	Quartz (SiO ₂)	1
98-88-4	benzoyl chloride	2A

· **NTP (National Toxicology Program)**

584-84-9	4-methyl-m-phenylene diisocyanate	R
91-08-7	2-methyl-m-phenylene diisocyanate	R
14808-60-7	Quartz (SiO ₂)	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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· UN-Number · DOT, TDG, IMDG, IATA	UN1263
· UN proper shipping name · DOT · TDG · IMDG, IATA	Paint 1263 Paint PAINT
· Transport hazard class(es) · DOT	
	
· Class · Label · TDG, IMDG, IATA	3 Flammable liquids 3
	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, TDG, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids 30 F-E,S-E A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· TDG · Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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· UN "Model Regulation": UN 1263 PAINT, 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

584-84-9	4-methyl-m-phenylene diisocyanate
91-08-7	2-methyl-m-phenylene diisocyanate

· Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
101-68-8	4,4'-methylenediphenyl diisocyanate
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
584-84-9	4-methyl-m-phenylene diisocyanate
91-08-7	2-methyl-m-phenylene diisocyanate
872-50-4	N-methyl-2-pyrrolidone
98-88-4	benzoyl chloride

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

872-50-4	N-methyl-2-pyrrolidone
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· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD

· TLV (Threshold Limit Value established by ACGIH)

xylene	A4
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
Carbon black	A4
4-methyl-m-phenylene diisocyanate	(A4)
2-methyl-m-phenylene diisocyanate	(A4)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4	Carbon black
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584-84-9	4-methyl-m-phenylene diisocyanate
91-08-7	2-methyl-m-phenylene diisocyanate
14808-60-7	Quartz (SiO ₂)

· **Canadian substance listings:**

· Canadian Domestic Substances List (DSL)	
1330-20-7	xylene
101-68-8	4,4'-methylenediphenyl diisocyanate
64742-95-6	Solvent naphtha (petroleum), light arom.
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate
122-51-0	triethyl orthoformate
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
1333-86-4	Carbon black
584-84-9	4-methyl-m-phenylene diisocyanate
91-08-7	2-methyl-m-phenylene diisocyanate
26447-40-5	methylenediphenyl diisocyanate
872-50-4	N-methyl-2-pyrrolidone
14808-60-7	Quartz (SiO ₂)
546-93-0	Magnesite
98-88-4	benzoyl chloride

· **Canadian Ingredient Disclosure list (limit 0.1%)**

101-68-8	4,4'-methylenediphenyl diisocyanate
584-84-9	4-methyl-m-phenylene diisocyanate
91-08-7	2-methyl-m-phenylene diisocyanate

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

4,4'-methylenediphenyl diisocyanate
 Solvent naphtha (petroleum), light arom.
 4-methyl-m-phenylene diisocyanate
 2-methyl-m-phenylene diisocyanate

· **Hazard statements**

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H340 May cause genetic defects.

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H350 May cause cancer.

H360 May damage fertility or the unborn child.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory protection.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground and bond container and receiving equipment.

P242 Use non-sparking tools.

P243 Take actions to prevent static discharges.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department
- **Contact:** HS REG.DEPART.REG.SS
- **Date of preparation / last revision** 09/09/2016 / -
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - WHMIS: Workplace Hazardous Materials Information System (Canada)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health

CA

