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SAFETY DATA SHEET (SDS)

EUCALYPTUS OIL

## SAFETY DATA SHEET

Version 2.0

Issued 31<sup>st</sup> March 2016

### EUCALYPTUS OIL (CINEOLE TYPE)

#### 1. IDENTIFICATION of the SUBSTANCE and the COMPANY

**Product Name:** 004 - Eucalyptus Oil 80/85 % (m/m) BP/EP -2018  
**Other Names:** Cineole, 1,8-cineole, 1,3,3 Trimethyl-3-oxabicyclo(2.2.2) octane, 1,8-epoxy-p-menthane, 1,8-oxide-p-menthane, cajeputol, oleum eucalypti  
**Recommended Use:** Flavours and Fragrances  
**Australian AHECC Code and Name:** 3301.29.10, Essential Oils of Eucalyptus

#### 2. HAZARD IDENTIFICATION

**UN Proper Shipping Name:** Flammable Liquid, N.O.S.  
**GHS Classification:** Flammable liquids category 3 , Acute Toxicity category 4;  
Eye irritation category 4

**GHS Pictograms:**



**GHS Signal word:** Warning

**Hazard Statements:** Flammable liquid and vapour, Harmful if swallowed,  
Causes serious eye irritation

**GHS Precautionary Statements**

**Prevention:** P210, P233, P240, P241, P242, P243, P264, P270, P280  
**Response:** P301, P303, P305, P312, P313, P330, P337, P338, P351, P353, P361, P370, P378  
**Storage:** P235, P403  
**Disposal:** P501 (For full precautionary statements see Section 15 on page 7)

SDS (Eucalyptus Oil)

Version 2.0  
Uncontrolled copy when printed

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<b>Poisons Schedule:</b>	S6 - Poison
<b>Health Hazards:</b>	This product may be harmful if swallowed. Vapour/mist/sprays may be irritating to the eyes
<b>Reactivity Hazards:</b>	None known
<b>Environmental Hazards:</b>	May cause adverse effects in aquatic environments. This product is biodegradable
<b>Emergency Considerations:</b>	Emergency responders must wear proper personal protective equipment and have appropriate fire suppression equipment suitable for the situation to which they are responding
<b>EU Labelling and Classification:</b>	For further information under CLP Regulation (EC) 1272/2008 refer to section 15 on page 8

**Health Hazards or Risks from Exposure:**

<b>Acute:</b>	Prolonged contact with this product may cause irritation to the skin. Contact with eyes may cause irritation or redness. This product may be harmful if swallowed.
<b>Chronic:</b>	None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Identity:</b>	1,8 Cineole (C <sub>10</sub> H <sub>18</sub> O)	ISO 3065:2011
<b>Common Names:</b>	Eucalyptus Oil (cineole type)	

HAZARDOUS INGREDIENTS	CAS Number	EINECS Number (EC No.)	ICSC Number	Weight %	HAZARD CLASSIFICATION; RISK PHRASES
Eucalyptus Oil	8000-48-4	283-406-3	Not Established	100%	Hazard Classification: Flammable liquids category 3; Acute Toxicity category 4; Eye irritation category 4 Hazard Statements: H226, H302, H319
Balance of water and other components. Each of the other components is present in less than 1% concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers and mutagens)					Hazard Classification: Not classified Hazard Statements: None

NOTE: All Canadian WHMIS required information is included in appropriate sections based on GHS format. This product has been classified in accordance with hazard criteria of the GHS and the SDS contains all the information required by the GHS, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000

See Sections 2 and 15 for full text of **Hazard Classification**, **Signal Words** and **Hazard Statements**

### 4. FIRST AID MEASURES

Individuals contaminated by chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention if necessary. Take a copy of the label and SDS to the health professional with contaminated individual.

**Symptoms caused by exposure**

<b>Human adult:</b>	Hallucination, distorted perception, coma, diarrhoea, allergic dermatitis
<b>Human child:</b>	Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhoea

**Medical Attention and Special Treatment**

<b>Eye Contact:</b>	Causes serious eye irritation. If in the eyes, open victims' eyes while under gentle running water. Use sufficient force to open eyelids. Flush for a minimum of fifteen (15) minutes. Remove contact lenses if worn and accessible. Seek immediate medical attention if irritation persists
<b>Skin Contact:</b>	Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops
<b>Inhalation:</b>	If fumes or vapours are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists
<b>Ingestion:</b>	If the chemical is swallowed, call a physician or poison control centre for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot

swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and SDS with the victim to a health professional

**Medical Conditions aggravated by exposure:**

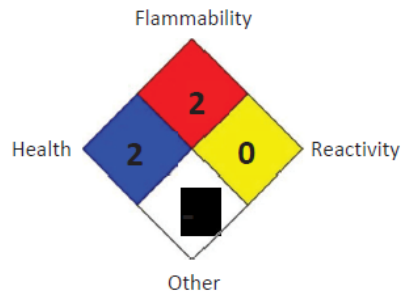
Pre-existing skin, eye or respiratory problems may be aggravated by prolonged contact

**Recommendation to Physicians:**

Treat symptoms and eliminate exposure

## 5. FIRE FIGHTING MEASURES

<b>Flash Point:</b>	48 °C (120 °F)
<b>Suitable fire extinguishing materials:</b>	Carbon dioxide, foam, dry chemical, halon or water fog/mist.
<b>Unsuitable fire extinguishing materials:</b>	Do not use full water jet
<b>Unusual fire and explosion hazards:</b>	This product is flammable & vapours may travel some distance and flash back if ignited
<b>Explosion sensitivity to mechanical impact:</b>	Not sensitive
<b>Explosion Sensitivity to static discharge:</b>	Sensitive
<b>Specific hazards arising from the substance:</b>	May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.
<b>Special fire fighting procedures:</b>	Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive areas

**NFPA RATING:****Hazard Scale:**

0 = Minimal  
 1 = Slight  
 2 = Moderate  
 3 = Serious  
 4 = Severe

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Proper protective equipment should be used (see Section 8: Personal Protection). Personnel should be trained for spill response operations.
<b>Emergency Procedures:</b>	Trained personnel following pre-planned procedures should handle non-incident releases.
<b>Spill Containment/Cleanup:</b>	Contain spilled material using poly-pads or other suitable absorbent material. Avoid generating mists or sprays. Place all spill residues in an appropriate container and seal. Ventilate area and wash spill area after material pickup is complete.
<b>Environmental Precautions:</b>	Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State and Local procedures (see Section 13).

## 7. HANDLING and STORAGE

**Work Practices and Hygiene Practices:** Read all labels before use. As with all chemicals; avoid getting this product on you or in you. Wear personal protective equipment (see Section 8) and wash thoroughly after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well ventilated location. Remove contaminated clothing immediately.

**Storage and Handling Practices:** Observe all Federal and State regulations pertaining to the storage and handling of flammable liquids. Store in a cool, dry, well ventilated area away from direct sunlight. Keep containers tightly closed when not in use. Store away from sources of heat or ignition (sparks, open flame, hot surfaces). Store away from incompatible materials (oxidising agents and acids). Inspect regularly for damage and leaks. Take precautionary measures against static discharge: Ground container and receiving equipment, use only non-sparking tools and use explosion-proof electrical and other equipment.

This product is listed in the Australian Scheduling of Drugs and Poisons as a Schedule 6 Poison; storage and handling procedures must be in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation and Engineering Controls:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below

Chemical Name	CAS Number	ACGIH-TLV's	OSHA PEL's	NIOSH-TLV's	Other
Eucalyptus Oil	8000-48-4	Not Established	Not Established	Not Established	Not Established

Currently, international exposure limits are not established for the components of this product. Please check with a competent authority in each country for the most recently established limits

*The following information on Personal Protective Equipment (PPE) is provided to assist employers in complying with OSHA regulations found in 29 CFR sub-part I (beginning at 1910.132) or equivalent standard of Australia and Canada, or standards of EU member states (including EN 149 for respiratory PPE and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for full relevant details*

**Eye/Face Protection:** Splash goggles or safety glasses with side shields are recommended. If necessary, refer to US OSHA Standard 29 CFR 1910.133, the European Standard EN 166, the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards

**Hand Protection:** Compatible protective gloves are recommended. Wash hands after removing gloves. If necessary, refer to US OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards

**Body Protection:** Use body protection appropriate to the task. Coveralls, rubber aprons or chemical protective clothing made from natural rubber are generally acceptable depending on the task. If a hazard of injury to the feet exists due to falling objects, rolling objects or where objects may pierce the soles of the feet or where an employee's feet may be exposed to electrical hazards, use foot protection in accordance with US OSHA 29 CFR 1910.136. If necessary refer to the appropriate Australian Standards, Canadian Standards, or the relevant Japanese and European Standards

**Respiratory Protection:** If exposure limits are exceeded, use only respiratory protection authorised in the US Federal OSHA Respiratory Standard 29 CFR 1910.134, equivalent US State standards, Canadian CSA Standard Z94.4-93, the European Standard EN 149 or equivalent EU member State Standards

## 9. PHYSICAL and CHEMICAL PROPERTIES

<b>Appearance:</b>	Colourless to pale yellow liquid
<b>Odour:</b>	Fresh, camphor like
<b>Odour threshold:</b>	Mild
<b>pH:</b>	Not established
<b>Melting point:</b>	1.5°C
<b>Freezing point:</b>	0 °C
<b>Boiling point/range:</b>	155-176°C
<b>Flash point:</b>	43-56°C (Penksey-Martin closed cup)

<b>Evaporation rate:</b>	Not established
<b>Flammability:</b>	55 °C (Cleveland open cup)
<b>Upper flammability:</b>	Not established
<b>Lower flammability:</b>	Not established
<b>Vapour pressure:</b>	1.62mm @25°C
<b>Vapour density:</b>	Not established
<b>Relative density:</b>	0.885-0.928
<b>Solubility:</b>	Insoluble in water, 1 part miscible with 2 parts ethanol (70% v/v) at 20 °C
<b>Partition coefficient:</b>	0.0681
<b>Auto-ignition temp:</b>	269 °C
<b>Decomposition temp:</b>	Not established
<b>Viscosity (Kinematic):</b>	1.6-2.1 mm <sup>2</sup> /s at 40 °C
<b>(Dynamic):</b>	N/A
<b>VOC content (% volatile):</b>	100%
<b>Optical rotation:</b>	-20° to +10° at 20 °C
<b>Saturated vapour concentration:</b>	Not established
<b>Release of invisible flammable vapours and gases:</b>	This product is flammable & vapours may travel some distance and flash back if ignited

## 10. STABILITY and REACTIVITY

<b>Reactivity:</b>	None known
<b>Chemical stability:</b>	Stable under ordinary conditions of use and storage
<b>Conditions to avoid:</b>	Excessive heat, sparks, flames and other sources of ignition
<b>Incompatible materials:</b>	Strong oxidising or reducing agents. Protect from air
<b>Hazardous depolymerisation:</b>	Will not occur
<b>Hazardous decomposition products:</b>	When heated, decomposition may produce hydrocarbons, CO and/or CO <sub>2</sub>

## 11. TOXICOLOGICAL INFORMATION

### Likely routes of exposure and symptoms related to exposure

<b>Eye contact:</b>	Severe irritant. May cause redness, irritation or oedema
<b>Skin contact:</b>	Potential irritant. May cause erythema, irritation or oedema if oil is oxidised Repeated or prolonged skin contact may lead to allergic contact dermatitis
<b>Inhalation:</b>	Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing
<b>Ingestion:</b>	May be harmful if swallowed. May result in allergic dermatitis, hallucination, ataxia, diarrhoea, central nervous system depression, sleep or coma

### Measures of toxicity

<b>Acute oral toxicity:</b>	Oral LD <sub>50</sub> rat:	2480 mg/Kg
<b>Skin corrosion/irritation:</b>	Dermal LD <sub>50</sub> rabbit:	>5000 mg/Kg
<b>Eye damage/irritation:</b>	HET-CAM	Severe irritant
<b>Dermal Toxic Dose :</b>	Feline:	5-7 mL/Kg
<b>Dermal Toxic Dose:</b>	Canine:	1500mg/kg
<b>Dermal Toxic Dose:</b>	Human adult:	> 25% (in white paraffin applied for 21 days) ?
<b>Oral Toxic Dose:</b>	Human adult:	375 mg/kg
<b>Oral Toxic Dose (1):</b>	Human child:	218 mg/Kg (NIOSH1975)

### Toxic effects

Rat:	Somnolence, muscle weakness, ataxia, partial paralysis
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Feline:	Ataxia, change to leukocyte count
Canine:	Somnolence, ataxia, partial paralysis
Human adult:	Hallucination, distorted perception, coma, diarrhoea, allergic dermatitis
Human child:	Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhoea

**Sensitisation potential**

Skin:	Low (modified FCA method, guinea pig model); LLNA
Eye:	Category 2 for reversible eye effects

**Germ cell mutagenicity:**

Not mutagenic as determined by the Ames test; Micronucleus Assay OECD 474

**Carcinogenicity:**

The components of this product are not listed by agencies tracking the carcinogenic potential of chemical compounds as follows:

<b>NTP Regulated:</b>	No
<b>IARC Regulated:</b>	No
<b>OSHA Regulated:</b>	No

**Reproductive Toxicity**

Effects of this product and its components on the human reproductive system:

Mutagenicity:

The components of this product are not reported to produce mutagenic effects in humans

Embryotoxicity:

The components of this product are not reported to produce embryotoxic effects in humans

Teratogenicity:

The components of this product are not reported to produce teratogenic effects in humans

Reproductive Toxicity:

The components of this product are not reported to produce reproductive effects in humans

**STOT - single exposure:**

No valid data

**STOT – repeated exposure:**

No valid data. With repeated exposure this product may cause damage to the following organs: Blood, skin, central nervous system

**Aspiration hazard:**

No valid data

## 12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination

**Environmental Toxicity:**

Not acutely toxic to fish LC<sub>50</sub> > 100 mg/L (OECD 203)

**Environmental Fate:**

May cause adverse side effects in an aquatic environment, biodegradable in seawater

**Persistence and Degradability:**

This product is readily biodegradable<sub>13</sub>

**Mobility in Soil:**

No data available

**Other Adverse Effects:**

None known

## 13. DISPOSAL CONSIDERATIONS

**Preparing waste for Disposal:**

Waste disposal must be in accordance with the appropriate Australian Federal, State and Local regulations as well as those of Canada, USA, EU Member States and Japan

**Disposal methods:**

Dispose of containers and small amounts at an approved landfill site. For larger quantities contact a licensed professional waste disposal service

**Precautions:**

Prevent contamination of drains and/or waterways

## 14. STORAGE and TRANSPORT INFORMATION

**UN Proper Shipping Name:**

FLAMMABLE LIQUID, N.O.S.

**UN Number:**

1993

**Transport Hazard Class:**

Flammable liquids category 3

**GHS Packing Groups:**

III

**GHS Labelling requirements****GHS Signal word:**

Warning

**GHS Classifications:**

Flammable liquids category 3; Acute Toxicity category 4;  
Eye irritation category 4

**GHS Pictograms:**

**GHS Hazard Statements:** **H226:** Flammable liquid and vapour; **H302** Harmful if swallowed; **H319:** Causes serious eye irritation.  
**Hazchem Code:** 3[Y]  
**US DOT Labelling Requirements:** Flammable Label (Flame pictogram)  
**Environmental Hazards:** May cause adverse effects in aquatic environments.  
This product is biodegradable



#### Special Precautions during Transport

**IATA and IMO Labelling Requirements:** Flammable Label (Flame pictogram)  
**Aircraft Restrictions:** Passenger Aircraft 60 litres, Cargo Aircraft 220 Litres

Australian National Transport Commission: This produce is classified as **Dangerous Goods** under the Australian Dangerous Goods Code (ADG7).

US Dept. of Transport (DOT) Shipping Regulations: This product is classified as **Dangerous Goods** per DOT regulations under 49 CFR 172.101.

Transport Canada, Transport of Dangerous Goods Regulations: This product is classified as **Dangerous Goods** as per regulations of Transport Canada (Canadian Transport of Dangerous Goods).

International Air Transport Association (IATA): This product is classified as **Dangerous Goods** requirements under IATA DG Regulations which are based in part on the UN Recommendations for the Transport of Dangerous Goods

International Maritime Organisation (IMO) Designation: This product is classified as **Dangerous Goods** under IMO DG Code which is based in part on the UN Recommendations for the Transport of Dangerous Goods

European Agreement concerning the international carriage of Dangerous Goods by Road (ADR): This product is classified as **Dangerous Goods** by the United Nations Economic Commission for Europe

## 15. REGULATORY INFORMATION

*Note: All countries have specific requirements for labelling depending on a wide variety of factors. The following regulatory information is provided to assist in complying with some common regulations for major export destinations including Australia, the USA, Canada, EU member states and Japan. Please reference applicable regulations and standards for full relevant details for destinations*

### Australia

**AICS Status:** All components of this product are listed or exempt

**Standard for the Uniform**

**Scheduling of Drugs and Poisons:** Schedule 6 (S6) Poison

**Classification & Labelling:** UN GHS for classification and labelling of chemicals.

**Classification:** Flammable liquid category 3; Acute toxicity category 4; Eye irritation category 4

**GHS Pictograms:**



**GHS Signal Word:** Warning

**GHS Hazard Statements:** **H226:** Flammable liquid and vapour; **H302** Harmful if swallowed; **H319:** Causes serious eye irritation

**GHS Precautionary Statements** *For full details refer to the appropriate section of this SDS*

**Prevention:** **P210:** Keep away from heat/sparks/open flames/hot surfaces.-No Smoking, **P233:** Keep container tightly closed

**P240:** Ground/bond container and receiving equipment, **P242:** Use only non-sparking tools

**P241:** Use explosion proof electrical/venting/lighting equipment

**P243:** Take precautionary measures against static discharge

**P270:** Do not eat, drink or smoke when using this product, **P264:** Wash thoroughly after handling

**P280:** Wear protective gloves/eye protection/face protection

**Response:** **P301 + P312:** IF SWALLOWED: call a POISON CENTRE or doctor/physician if you feel unwell.

**P303+P361+P353:** IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower

**P305+P351+P338:** IF IN EYES: Rinse cautiously for several minutes, remove contact lenses if present & easy to do, continue rinsing.

**P313+P317:** If eye irritation persists get medical attention, **P330:** Rinse mouth

**P370+ P378:** In case of fire: Use [appropriate media] for extinction

**Storage:** **P403+P235:** Store in a well-ventilated place, keep cool

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

### United States

**SARA Reporting Requirements:** None

**Marine Pollutant:** This product contains no component listed as a Marine Pollutant under 49 CFR 172.101 Appendix B

<b>TSCA:</b>	All components in this product mixture are listed on the US TSCA inventory of chemicals or are exempt from listing
<b>SARA 31/312:</b>	<b>Acute Health:</b> Yes; <b>Chronic Health:</b> No; <b>Fire:</b> Yes; <b>Reactivity:</b> No
<b>US CERCLA (RQ):</b>	None
<b>California (Proposition 65):</b>	This product does not contain any component above the 0.1% level which is listed as a California Proposition 65 Chemical

### Canada

<b>Canada DSL Inventory Status:</b>	All of the components of this product are on the Domestic Substance List (DSL). This product is listed on the DSL as <i>Oils, eucalyptus</i> under identifier # 8000-48-4
<b>CEPA Substance List:</b>	No component of this product is on the CEPA First Priorities Substance List
<b>Canadian WHMIS Classification and Symbol:</b>	Class B-2 Flammable Liquid. (Flame pictogram): Canadian federal Hazardous Products Act (HPA) and associated Controlled Products Regulations (CPR)



### European Union

**EINCS:** This material is listed on the European Inventory of Existing Chemical Substances (EINCS).

**Classification & Labelling:** CLP Regulation (EC) 1272/2008

### International Chemical Inventories Summary

Listing of the components on individual country Chemical Inventories:

<b>Asia-Pacific:</b>	Listed or exempt	<b>Australian ICS:</b>	Listed or exempt
<b>Korean ECL:</b>	Listed or exempt	<b>Japanese ENICS:</b>	Listed or exempt
<b>Philippines ICCS:</b>	Listed or exempt	<b>Swisse Giftliste:</b>	Listed or exempt
<b>USA TSCA:</b>	Listed or exempt	<b>Canadian DSL:</b>	Listed or exempt

## 16. OTHER INFORMATION

### Abbreviations

**ACGIH** American Conference of Governmental Industrial Hygienists, **ADG7** Australian Dangerous Goods 7<sup>th</sup> Edition, **AHECC** Australian Harmonized Export Commodity Classification, **AICS** Australian Inventory of Chemical Substances, **California (Proposition 65)** The Safe Drinking Water and Toxic Enforcement Act of 1986, **CAS** Chemical Abstracts Service, **CEPA** Canadian Environmental Protection Act, **CERCLA** Comprehensive Environmental Response Compensation and Liability Act, **CFR** Code of Federal Regulations, **CLP** Classification, Labelling & Packaging, **DSL** Domestic Substances List, **DIN** Deutsches Institut für Normung, **DOT** Department of Transport, **DPD** Dangerous Preparations Directive, **ECL** Existing Chemicals List, **ENICS** Existing national Inventory of Chemical Substances, **EU** European Union, **FCE** Formal Concept Analysis, **HET-CAM** Hen's Egg Test Chorioallantoic Membrane, **IATA** International Air transport Association, **ICCS** Inventory of Chemicals and Chemical Substances, **ICS** Inventory of Chemical Substances, **IMO** International Maritime Organisation, **JIS** Japanese Industrial Standards, **LD<sub>50</sub>**, Lethal Dose 50%, **LLNA** Local Lymph Node Assay, **MITI** Minister of International Trade and Industry, **NFPA** National Fire Protection Association, **NIOSH** National Institute for Occupational Safety and Health, **NOS** Not Otherwise Specified, **OECD** Organisation for Economic Cooperation and Development, **OSHA** Occupational Safety & Health Administration, **PELs** Permissible Exposure Limits, **PPE** Personal Protective Equipment, **RQ** Reportable Quantity, **SARA** Superfund Amendments and Reauthorization Act 1986, **SDS** Safety Data Sheet, **STOT** Single Target Organ Toxicity, **TLV** Threshold Limit Value, **TSCA** Toxic Substances Control Act, **UN** United Nations, **GHS** Globally Harmonised System, **VOC** Volatile Organic Compound, **WHMIS** Workplace Hazardous Materials Information System.

### References

- 1) United Nations, (2011), *Globally Harmonised System of Classification and Labelling of Chemicals (GHS) 4th revised edition*. United Nations, New York & Geneva, Available from URL: <http://www.unece.org/?id=25985> accessed 20 Mar 2012
- 2) National Transport Commission, (2011), *Australian Code for the Transport of Dangerous Goods by Road & Rail, 2011 Electronic Version for Website www.ntc.gov.au Incorporating Corrigendum*, . Available from URL: <http://www.ntc.gov.au/filemedia/Publications/ADG7October2011.pdf> accessed 22 Mar 2012
- 3) Transport Canada, (2010), *Hazardous Materials*, Available from URL: [http://www.tc.gc.ca/eng/canutec/links-hazmat-217.htm#labels\\_placards\\_segregation\\_or\\_incompatibility\\_charts](http://www.tc.gc.ca/eng/canutec/links-hazmat-217.htm#labels_placards_segregation_or_incompatibility_charts) accessed 2 Apr 2012
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- 5) US Dept of Transport, (2011), *Identifying Hazardous Materials in Your Community*, Available from URL: <http://www.phmsa.dot.gov/public/protect/id-hazard/>, accessed 2 Apr 2012