

# Material Safety Data Sheet



PAH Analyzer checkout sample, Part Number G3440-85009

## 1. Product and company identification

<b>Product name</b>	: PAH Analyzer checkout sample, Part Number G3440-85009	
<b>Material uses</b>	: Analytical chemistry.	
	Internal Standard Solution	2 x 1 ml
	Custom Standard	2 x 1 ml
<b>Supplier/Manufacturer</b>	: Agilent Technologies, Inc. Logistics Center - Americas 500 Ships Landing Way New Castle, Delaware 19720	
<b>Part No. (Chemical Kit)</b>	: G3440-85009	
<b>Part No.</b>	Internal Standard Solution	072610-152
	Custom Standard	072610-153
<b>Validation date</b>	: 10/29/2010	
<b>In case of emergency</b>	: 1-302-633-8777 1-877-4 Agilent (Information Telephone Number)	

## 2. Hazards identification

<b>Physical state</b>	: Internal Standard Solution	Liquid.
	Custom Standard	Liquid.
<b>Odor</b>	: Internal Standard Solution	Not available.
	Custom Standard	Not available.
<b>Emergency overview</b>		
<b>Signal word</b>	: Internal Standard Solution	WARNING!
	Custom Standard	WARNING!
<b>Hazard statements</b>	: Internal Standard Solution	EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
	Custom Standard	EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
<b>Precautions</b>	:	

## 2. Hazards identification

	Internal Standard Solution	Keep away from heat, sparks and flame. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
	Custom Standard	Keep away from heat, sparks and flame. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
<b>Routes of entry</b>	: Internal Standard Solution Custom Standard	Dermal contact. Inhalation. Ingestion. Dermal contact. Inhalation. Ingestion.
<b><u>Potential acute health effects</u></b>		
<b>Inhalation</b>	: Internal Standard Solution	Can cause central nervous system (CNS) depression. Slightly irritating to the respiratory system.
	Custom Standard	Can cause central nervous system (CNS) depression. Slightly irritating to the respiratory system.
<b>Ingestion</b>	: Internal Standard Solution	Can cause central nervous system (CNS) depression.
	Custom Standard	Can cause central nervous system (CNS) depression.
<b>Skin</b>	: Internal Standard Solution Custom Standard	Slightly irritating to the skin. Defatting to the skin. Slightly irritating to the skin. Defatting to the skin.
<b>Eyes</b>	: Internal Standard Solution Custom Standard	Irritating to eyes. Irritating to eyes.
<b><u>Potential chronic health effects</u></b>		
<b>Chronic effects</b>	: Internal Standard Solution	Contains material that may cause target organ damage, based on animal data. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
	Custom Standard	Contains material that may cause target organ damage, based on animal data. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
<b>Carcinogenicity</b>	: Internal Standard Solution Custom Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Internal Standard Solution Custom Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Internal Standard Solution Custom Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Internal Standard Solution Custom Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Internal Standard Solution Custom Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Target organs</b>	: Internal Standard Solution	Contains material which may cause damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
	Custom Standard	Contains material which may cause damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### **Over-exposure signs/symptoms**

## 2. Hazards identification

<b>Inhalation</b>	: Internal Standard Solution	Adverse symptoms may include the following: nausea or vomiting respiratory tract irritation coughing headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Custom Standard	Adverse symptoms may include the following: nausea or vomiting respiratory tract irritation coughing headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Ingestion</b>	: Internal Standard Solution Custom Standard	No specific data. No specific data.
<b>Skin</b>	: Internal Standard Solution	Adverse symptoms may include the following: irritation redness dryness cracking
	Custom Standard	Adverse symptoms may include the following: irritation redness dryness cracking
<b>Eyes</b>	: Internal Standard Solution	Adverse symptoms may include the following: pain or irritation watering redness
	Custom Standard	Adverse symptoms may include the following: pain or irritation watering redness
<b>Medical conditions aggravated by over-exposure</b>	: Internal Standard Solution	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
	Custom Standard	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
<b>Internal Standard Solution</b> Acetone	67-64-1	60 - 100
<b>Custom Standard</b> Acetone	67-64-1	60 - 100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

<b>Eye contact</b>	: Internal Standard Solution	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
	Custom Standard	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
<b>Skin contact</b>	: Internal Standard Solution	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
	Custom Standard	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
<b>Inhalation</b>	: Internal Standard Solution	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	Custom Standard	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Ingestion</b>	: Internal Standard Solution	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
	Custom Standard	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Protection of first-aiders</b>	: Internal Standard Solution	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Custom Standard	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
<b>Notes to physician</b>	: Internal Standard Solution	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Custom Standard	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

<b>Flammability of the product</b>	: Internal Standard Solution  Custom Standard	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.  Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
<b>Extinguishing media</b>		
<b>Suitable</b>	: Internal Standard Solution Custom Standard	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Not suitable</b>	: Internal Standard Solution Custom Standard	Do not use water jet. Do not use water jet.
<b>Special exposure hazards</b>	: Internal Standard Solution  Custom Standard	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.  Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Hazardous thermal decomposition products</b>	: Internal Standard Solution  Custom Standard	Decomposition products may include the following materials: carbon dioxide carbon monoxide  Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

## 6. Accidental release measures

<b>Personal precautions</b>	: Internal Standard Solution  Custom Standard	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).  No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding
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## 6. Accidental release measures

**Environmental precautions** : Internal Standard Solution

Custom Standard

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up** : Internal Standard Solution

Custom Standard

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

Dispose of via a licensed waste disposal contractor.

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Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

**Handling** : Internal Standard Solution

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not



## 7. Handling and storage

reuse container.

Custom Standard

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Storage

: Internal Standard Solution

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Custom Standard

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

<u>Occupational exposure limits</u>		<u>TWA (8 hours)</u>			<u>STEL (15 mins)</u>			<u>Ceiling</u>			
<u>Ingredient</u>	<u>List name</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>Other</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>Other</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>Other</u>	<u>Notations</u>
<b>Internal Standard Solution</b> Acetone	US ACGIH 2/2010	500	1188	-	750	1782	-	-	-	-	
	AB 4/2009	500	1200	-	750	1800	-	-	-	-	
	BC 10/2009	250	-	-	500	-	-	-	-	-	
	ON 7/2010	500	1188	-	750	1782	-	-	-	-	
	QC 6/2008	500	1190	-	1000	2380	-	-	-	-	
<b>Custom Standard</b> Acetone	US ACGIH 2/2010	500	1188	-	750	1782	-	-	-	-	
	AB 4/2009	500	1200	-	750	1800	-	-	-	-	
	BC 10/2009	250	-	-	500	-	-	-	-	-	
	ON 7/2010	500	1188	-	750	1782	-	-	-	-	
	QC 6/2008	500	1190	-	1000	2380	-	-	-	-	

### Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Other protection** : Not available.

## 9. Physical and chemical properties

- Physical state** : Internal Standard Solution      Liquid.  
Custom Standard      Liquid.
- Flash point** : Internal Standard Solution      Closed cup: -18.15°C (-0.67°F)  
Custom Standard      Closed cup: -18.15°C (-0.67°F)
- Auto-ignition temperature** : Internal Standard Solution      Not available.  
Custom Standard      Not available.



## 9. Physical and chemical properties

<b>Flammable limits</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>Color</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>Odor</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>pH</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>Boiling/condensation point</b>	: Internal Standard Solution Custom Standard	56.1°C (133°F) 56.1°C (133°F)
<b>Melting/freezing point</b>	: Internal Standard Solution Custom Standard	-94.2°C (-137.6°F) -94.2°C (-137.6°F)
<b>Specific gravity</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>Vapor pressure</b>	: Internal Standard Solution Custom Standard	24.7 kPa (185 mm Hg) [20°C] 24.7 kPa (185 mm Hg) [20°C]
<b>Vapor density</b>	: Internal Standard Solution Custom Standard	2 [Air = 1] 2 [Air = 1]
<b>Odor threshold</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>Evaporation rate</b>	: Internal Standard Solution Custom Standard	6.06 (butyl acetate = 1) 6.06 (butyl acetate = 1)
<b>Viscosity</b>	: Internal Standard Solution Custom Standard	Not available. Not available.
<b>Solubility</b>	: Internal Standard Solution  Custom Standard	Easily soluble in the following materials: cold water and hot water.  Easily soluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

<b>Chemical stability</b>	: Internal Standard Solution Custom Standard	The product is stable. The product is stable.
<b>Conditions to avoid</b>	: Internal Standard Solution  Custom Standard	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.  Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
<b>Materials to avoid</b>	: Internal Standard Solution  Custom Standard	Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials
<b>Hazardous decomposition products</b>	: Internal Standard Solution  Custom Standard	Under normal conditions of storage and use, hazardous decomposition products should not be produced.  Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**10. Stability and reactivity**

**Possibility of hazardous reactions** : Internal Standard Solution Under normal conditions of storage and use, hazardous reactions will not occur.  
 Custom Standard Under normal conditions of storage and use, hazardous reactions will not occur.

**11. Toxicological information****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>Internal Standard Solution</b> Acetone	LD50 Oral	Rat	5800 mg/kg	-
<b>Custom Standard</b> Acetone	LD50 Oral	Rat	5800 mg/kg	-

**Chronic toxicity**

**Conclusion/Summary** : Not available.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Internal Standard Solution</b> Acetone	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
<b>Custom Standard</b> Acetone	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-

**Sensitizer**

**Conclusion/Summary** : Not available.

**Carcinogenicity****Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
<b>Internal Standard Solution</b> Acetone	A4	-	-	-	-	-
<b>Custom Standard</b> Acetone	A4	-	-	-	-	-

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Other adverse symptoms** : Internal Standard Solution Not available.  
 Custom Standard Not available.

## 12. Ecological information

**Ecotoxicity** : This material is toxic to aquatic life with long lasting effects.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
<b>Internal Standard Solution</b> Acetone	Acute LC50 7550000 ug/L Fresh water Acute LC50 10000 ug/L Fresh water Acute LC50 >100000 ug/L Fresh water	Crustaceans - Asellus aquaticus Daphnia - Daphnia magna Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	48 hours 48 hours 96 hours
<b>Custom Standard</b> Acetone	Acute LC50 7550000 ug/L Fresh water Acute LC50 10000 ug/L Fresh water Acute LC50 >100000 ug/L Fresh water	Crustaceans - Asellus aquaticus Daphnia - Daphnia magna Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	48 hours 48 hours 96 hours

**Partition coefficient: n-octanol/water** : Internal Standard Solution Not available.  
Custom Standard Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations


**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.




The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>TDG</b>	UN1090	ACETONE solution	3	II		<b><u>Explosive Limit and Limited Quantity Index</u></b> 1 <b><u>Passenger Carrying Ship Index</u></b> Forbidden <b><u>Passenger Carrying Road or Rail Index</u></b>

## 14. Transport information

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<b>IMDG</b>	UN1090	ACETONE SOLUTIONS solution. Marine pollutant (Chrysene)	3	II	 	<b>Emergency schedules (EmS)</b> F-E, S-D
<b>IATA</b>	UN1090	Acetone solution	3	II		<b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 L Packaging instructions: 305 <b>Cargo Aircraft Only</b> Quantity limitation: 60 L Packaging instructions: 307 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 1 L Packaging instructions: Y305

PG\* : Packing group

## 15. Regulatory information

**WHMIS (Canada)** : Internal Standard Solution  
Custom Standard  
Class B-2: Flammable liquid  
Class D-2B: Material causing other toxic effects (Toxic).  
Class B-2: Flammable liquid  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Volatile organic compounds

**CEPA Toxic substances** : The following components are listed: Volatile organic compounds

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information

**Label requirements** : Internal Standard Solution  
Custom Standard  
EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.  
EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. INHALATION

## 16. Other information

CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Date of issue** : 10/29/2010  
**Date of previous issue** : No previous validation.  
**Version** : 1

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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