

SAFETY DATA SHEET

PAH Analyzer Calibration Sample Kit, Part Number G3440-85009

Section 1. Identification

1.1 Product identifier

Product name : PAH Analyzer Calibration Sample Kit, Part Number G3440-85009
Part no. (chemical kit) : G3440-85009
Part no. : PAH Analyzer Calibration Sample # 1 G3440-85009-1
 PAH Analyzer Calibration Sample # 2 G3440-85009-2
Validation date : 7/23/2018

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
 PAH Analyzer Calibration Sample # 1 2 x1 ml
 PAH Analyzer Calibration Sample # 2 2 x1 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : PAH Analyzer Calibration Sample # 1 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 PAH Analyzer Calibration Sample # 2 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

PAH Analyzer Calibration

Sample # 1

H225 FLAMMABLE LIQUIDS - Category 2
 H319 EYE IRRITATION - Category 2A
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H401 AQUATIC HAZARD (ACUTE) - Category 2
 H411 AQUATIC HAZARD (LONG-TERM) - Category 2

PAH Analyzer Calibration

Sample # 2

H225 FLAMMABLE LIQUIDS - Category 2
 H319 EYE IRRITATION - Category 2A
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H401 AQUATIC HAZARD (ACUTE) - Category 2
 H411 AQUATIC HAZARD (LONG-TERM) - Category 2

2.2 GHS label elements

Section 2. Hazards identification

Hazard pictograms

: PAH Analyzer Calibration Sample # 1



PAH Analyzer Calibration Sample # 2



Signal word

: PAH Analyzer Calibration Sample # 1 Danger

PAH Analyzer Calibration Sample # 2 Danger

Hazard statements

: PAH Analyzer Calibration Sample # 1 H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

PAH Analyzer Calibration Sample # 2 H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: PAH Analyzer Calibration Sample # 1 P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P233 - Keep container tightly closed.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.

PAH Analyzer Calibration Sample # 2 P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P233 - Keep container tightly closed.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.

Section 2. Hazards identification

Response	: PAH Analyzer Calibration Sample # 1	P391 - Collect spillage. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. P337 + P313 - If eye irritation persists: Get medical attention.
	PAH Analyzer Calibration Sample # 2	P391 - Collect spillage. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: PAH Analyzer Calibration Sample # 1	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
	PAH Analyzer Calibration Sample # 2	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	: PAH Analyzer Calibration Sample # 1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	PAH Analyzer Calibration Sample # 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: PAH Analyzer Calibration Sample # 1	None known.
	PAH Analyzer Calibration Sample # 2	None known.
2.3 Other hazards		
Hazards not otherwise classified	: PAH Analyzer Calibration Sample # 1	None known.
	PAH Analyzer Calibration Sample # 2	None known.

Section 3. Composition/information on ingredients

Substance/mixture : PAH Analyzer Calibration Sample # 1 Mixture
PAH Analyzer Calibration Sample # 2 Mixture

Ingredient name	%	CAS number
PAH Analyzer Calibration Sample # 1		
Acetone	≥90	67-64-1
Anthracene	≤0.0022	120-12-7
Fluoranthene	≤0.0022	206-44-0
Pyrene	≤0.0022	129-00-0
Benzo[a]pyrene	≤0.0022	50-32-8
Dibenz[a,h]anthracene	≤0.0022	53-70-3
PAH Analyzer Calibration Sample # 2		
Acetone	≥90	67-64-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: PAH Analyzer Calibration Sample # 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	PAH Analyzer Calibration Sample # 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: PAH Analyzer Calibration Sample # 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	PAH Analyzer Calibration Sample # 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the

Section 4. First aid measures

Skin contact

: PAH Analyzer Calibration Sample # 1

person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

PAH Analyzer Calibration Sample # 2

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: PAH Analyzer Calibration Sample # 1

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

PAH Analyzer Calibration Sample # 2

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: PAH Analyzer Calibration Sample # 1

Causes serious eye irritation.

PAH Analyzer Calibration Sample # 2

Causes serious eye irritation.

Section 4. First aid measures

Inhalation	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Can cause central nervous system (CNS) depression. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No specific data. No specific data.
Ingestion	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No specific data. No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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Section 4. First aid measures

Specific treatments	: PAH Analyzer Calibration Sample # 1	No specific treatment.
	: PAH Analyzer Calibration Sample # 2	No specific treatment.
Protection of first-aiders	: PAH Analyzer Calibration Sample # 1	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.
	: PAH Analyzer Calibration Sample # 2	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: PAH Analyzer Calibration Sample # 1	Use dry chemical, CO ₂ , water spray (fog) or foam.
	: PAH Analyzer Calibration Sample # 2	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: PAH Analyzer Calibration Sample # 1	Do not use water jet.
	: PAH Analyzer Calibration Sample # 2	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: PAH Analyzer Calibration Sample # 1	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	: PAH Analyzer Calibration Sample # 2	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: PAH Analyzer Calibration Sample # 1	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	PAH Analyzer Calibration Sample # 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: PAH Analyzer Calibration Sample # 1	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.
	PAH Analyzer Calibration Sample # 2	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.
Special protective equipment for fire-fighters	: PAH Analyzer Calibration Sample # 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	PAH Analyzer Calibration Sample # 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: PAH Analyzer Calibration Sample # 1	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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	PAH Analyzer Calibration Sample # 2	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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

<p>For emergency responders : PAH Analyzer Calibration Sample # 1</p> <p>PAH Analyzer Calibration Sample # 2</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p>6.2 Environmental precautions : PAH Analyzer Calibration Sample # 1</p> <p>PAH Analyzer Calibration Sample # 2</p>	<p>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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.</p> <p>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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.</p>
<p>6.3 Methods and materials for containment and cleaning up</p>	
<p>Methods for cleaning up : PAH Analyzer Calibration Sample # 1</p> <p>PAH Analyzer Calibration Sample # 2</p>	<p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Dispose of via a licensed waste disposal contractor.</p> <p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Dispose of via a licensed waste disposal contractor.</p>

Section 7. Handling and storage

7.1 Precautions for safe handling

<p>Protective measures : PAH Analyzer Calibration Sample # 1</p>	<p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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 only non-sparking tools.</p>
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Section 7. Handling and storage

		<p>Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
	PAH Analyzer Calibration Sample # 2	
Advice on general occupational hygiene	: PAH Analyzer Calibration Sample # 1	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. See also Section 8 for additional information on hygiene measures.
	PAH Analyzer Calibration Sample # 2	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. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: PAH Analyzer Calibration Sample # 1	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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.
	PAH Analyzer Calibration Sample # 2	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)

Section 7. Handling and storage

and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
PAH Analyzer Calibration Sample # 1 Acetone	ACGIH TLV (United States, 3/2017). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 750 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 2400 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 250 ppm 10 hours. TWA: 590 mg/m ³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 2400 mg/m ³ 8 hours.
Anthracene	NIOSH REL (United States, 10/2016). TWA: 0.1 mg/m ³ 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 0.2 mg/m ³ 8 hours. Form: Benzene soluble OSHA PEL (United States, 6/2016). TWA: 0.2 mg/m ³ 8 hours. Form: Benzene soluble
Fluoranthene	NIOSH REL (United States, 10/2016). TWA: 0.1 mg/m ³ 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 0.2 mg/m ³ 8 hours. Form: Benzene soluble OSHA PEL (United States, 6/2016). TWA: 0.2 mg/m ³ 8 hours. Form: Benzene soluble

Section 8. Exposure controls/personal protection

Pyrene	<p>NIOSH REL (United States, 10/2016). TWA: 0.1 mg/m³ 10 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 0.2 mg/m³ 8 hours. Form: Benzene soluble</p> <p>OSHA PEL (United States, 6/2016). TWA: 0.2 mg/m³ 8 hours. Form: Benzene soluble</p>
Benzo[a]pyrene	<p>NIOSH REL (United States, 10/2016). TWA: 0.1 mg/m³ 10 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 0.2 mg/m³ 8 hours. Form: Benzene soluble</p> <p>OSHA PEL (United States, 6/2016). TWA: 0.2 mg/m³ 8 hours. Form: Benzene soluble</p>
Dibenz[a,h]anthracene	None.
PAH Analyzer Calibration Sample # 2	
Acetone	<p>ACGIH TLV (United States, 3/2017). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 750 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 2400 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2016). TWA: 250 ppm 10 hours. TWA: 590 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 2400 mg/m³ 8 hours.</p>

8.2 Exposure controls

Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

Individual protection measures

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.

Eye/face protection

- : 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Section 8. Exposure controls/personal protection

Skin protection

Hand protection

: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

: PAH Analyzer Calibration Sample # 1 Liquid.
PAH Analyzer Calibration Sample # 2 Liquid.

Color

: PAH Analyzer Calibration Sample # 1 Not available.
PAH Analyzer Calibration Sample # 2 Not available.

Odor

: PAH Analyzer Calibration Sample # 1 Not available.
PAH Analyzer Calibration Sample # 2 Not available.

Odor threshold

: PAH Analyzer Calibration Sample # 1 Not available.
PAH Analyzer Calibration Sample # 2 Not available.

pH

: PAH Analyzer Calibration Sample # 1 Not available.
PAH Analyzer Calibration Sample # 2 Not available.

Melting point

: PAH Analyzer Calibration Sample # 1 -94.2°C (-137.6°F)
PAH Analyzer Calibration Sample # 2 -94.2°C (-137.6°F)

Boiling point

: PAH Analyzer Calibration Sample # 1 56.1°C (133°F)
PAH Analyzer Calibration Sample # 2 56.1°C (133°F)

Section 9. Physical and chemical properties

Flash point	: PAH Analyzer Calibration Sample # 1	Closed cup: -18.15°C (-0.67°F)
	: PAH Analyzer Calibration Sample # 2	Closed cup: -18.15°C (-0.67°F)
Evaporation rate	: PAH Analyzer Calibration Sample # 1	6.06 (butyl acetate = 1)
	: PAH Analyzer Calibration Sample # 2	6.06 (butyl acetate = 1)
Flammability (solid, gas)	: PAH Analyzer Calibration Sample # 1	Not applicable.
	: PAH Analyzer Calibration Sample # 2	Not applicable.
Lower and upper explosive (flammable) limits	: PAH Analyzer Calibration Sample # 1	Not available.
	: PAH Analyzer Calibration Sample # 2	Not available.
Vapor pressure	: PAH Analyzer Calibration Sample # 1	24.7 kPa (185 mm Hg) [room temperature]
	: PAH Analyzer Calibration Sample # 2	24.7 kPa (185 mm Hg) [room temperature]
Vapor density	: PAH Analyzer Calibration Sample # 1	2 [Air = 1]
	: PAH Analyzer Calibration Sample # 2	2 [Air = 1]
Relative density	: PAH Analyzer Calibration Sample # 1	Not available.
	: PAH Analyzer Calibration Sample # 2	Not available.
Solubility	: PAH Analyzer Calibration Sample # 1	Easily soluble in the following materials: cold water and hot water.
	: PAH Analyzer Calibration Sample # 2	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: PAH Analyzer Calibration Sample # 1	Not available.
	: PAH Analyzer Calibration Sample # 2	Not available.
Auto-ignition temperature	: PAH Analyzer Calibration Sample # 1	Not available.
	: PAH Analyzer Calibration Sample # 2	Not available.
Decomposition temperature	: PAH Analyzer Calibration Sample # 1	Not available.
	: PAH Analyzer Calibration Sample # 2	Not available.
Viscosity	: PAH Analyzer Calibration Sample # 1	Not available.
	: PAH Analyzer Calibration Sample # 2	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: PAH Analyzer Calibration Sample # 1	No specific test data related to reactivity available for this product or its ingredients.
	: PAH Analyzer Calibration Sample # 2	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: PAH Analyzer Calibration Sample # 1	The product is stable.
	: PAH Analyzer Calibration Sample # 2	The product is stable.
10.3 Possibility of hazardous reactions	: PAH Analyzer Calibration Sample # 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	: PAH Analyzer Calibration Sample # 2	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: PAH Analyzer Calibration Sample # 1	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.
	: PAH Analyzer Calibration Sample # 2	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.
10.5 Incompatible materials	: PAH Analyzer Calibration Sample # 1	Reactive or incompatible with the following materials: oxidizing materials
	: PAH Analyzer Calibration Sample # 2	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: PAH Analyzer Calibration Sample # 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: PAH Analyzer Calibration Sample # 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
PAH Analyzer Calibration Sample # 1 Acetone	LC50 Inhalation Vapor	Rat	76 mg/l	4 hours	
	LD50 Oral	Rat	5800 mg/kg	-	
	Fluoranthene	LD50 Dermal	Rabbit	3180 mg/kg	-
		LD50 Oral	Rat	2 g/kg	-
PAH Analyzer Calibration Sample # 2 Acetone	LC50 Inhalation Vapor	Rat	76 mg/l	4 hours	

Section 11. Toxicological information

	LD50 Oral	Rat	5800 mg/kg	-
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Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
PAH Analyzer Calibration Sample # 1 Acetone	Eyes - Mild irritant	Rabbit	-	10 microliters	-	
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-	
	Skin - Mild irritant	Rabbit	-	395 milligrams	-	
	Anthracene	Skin - Mild irritant	Mouse	-	118 Micrograms	-
	Pyrene	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Benzo[a]pyrene	Skin - Mild irritant	Mouse	-	14 Micrograms	-	
PAH Analyzer Calibration Sample # 2 Acetone	Eyes - Mild irritant	Rabbit	-	10 microliters	-	
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-	
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-	
	Skin - Mild irritant	Rabbit	-	395 milligrams	-	

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
PAH Analyzer Calibration Sample # 1			
Anthracene	-	3	-
Fluoranthene	-	3	-
Pyrene	-	3	-
Benzo[a]pyrene	-	1	Reasonably anticipated to be a human carcinogen.
Dibenz[a,h]anthracene	-	2A	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
PAH Analyzer Calibration Sample # 1 Acetone Pyrene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
PAH Analyzer Calibration Sample # 2 Acetone	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : PAH Analyzer Calibration Sample # 1 Routes of entry anticipated: Oral, Dermal, Inhalation.
 PAH Analyzer Calibration Sample # 2 Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : PAH Analyzer Calibration Sample # 1 Causes serious eye irritation.
 PAH Analyzer Calibration Sample # 2 Causes serious eye irritation.

Inhalation : PAH Analyzer Calibration Sample # 1 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
 PAH Analyzer Calibration Sample # 2 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : PAH Analyzer Calibration Sample # 1 No known significant effects or critical hazards.
 PAH Analyzer Calibration Sample # 2 No known significant effects or critical hazards.

Ingestion : PAH Analyzer Calibration Sample # 1 Can cause central nervous system (CNS) depression.
 PAH Analyzer Calibration Sample # 2 Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : PAH Analyzer Calibration Sample # 1 Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
 PAH Analyzer Calibration Sample # 2 Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

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Inhalation	: PAH Analyzer Calibration Sample # 1	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	: PAH Analyzer Calibration Sample # 2	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: PAH Analyzer Calibration Sample # 1	No specific data.
	: PAH Analyzer Calibration Sample # 2	No specific data.
Ingestion	: PAH Analyzer Calibration Sample # 1	No specific data.
	: PAH Analyzer Calibration Sample # 2	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: PAH Analyzer Calibration Sample # 1	No known significant effects or critical hazards.
	: PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards.
Carcinogenicity	: PAH Analyzer Calibration Sample # 1	No known significant effects or critical hazards.
	: PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards.
Mutagenicity	: PAH Analyzer Calibration Sample # 1	No known significant effects or critical hazards.
	: PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards.
Teratogenicity	: PAH Analyzer Calibration Sample # 1	No known significant effects or critical hazards.
	: PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards.
Developmental effects	: PAH Analyzer Calibration Sample # 1	No known significant effects or critical hazards.
	: PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards.

Section 11. Toxicological information

Fertility effects	: PAH Analyzer Calibration Sample # 1	No known significant effects or critical hazards.
	: PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information	: PAH Analyzer Calibration Sample # 1	Adverse symptoms may include the following: altered blood counts. Repeated exposure may cause skin dryness or cracking.
	: PAH Analyzer Calibration Sample # 2	Adverse symptoms may include the following: altered blood counts. Repeated exposure may cause skin dryness or cracking.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
PAH Analyzer Calibration Sample # 1 Acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
Anthracene	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
	Acute EC50 95 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3.6 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
Fluoranthene	Acute LC50 1.27 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 6.08 µg/l Fresh water	Fish - Pimephales promelas - Sexually mature	5 weeks
	Acute EC50 0.103 ug/ml Marine water	Algae - Phaeodactylum tricorutum	72 hours
	Acute EC50 45 ppm Marine water	Algae - Skeletonema costatum	96 hours
Pyrene	Acute LC50 5.32 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 1.6 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.1 µg/l Marine water	Fish - Pleuronectes americanus	96 hours
	Chronic NOEC 41.7 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 95 µg/l Marine water	Aquatic plants - Plantae	72 hours
	Chronic NOEC 1.4 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.4 µg/l Fresh water	Fish - Pimephales promelas	32 days
Acute EC50 20 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
Acute LC50 0.89 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours	

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Benzo[a]pyrene	Acute EC50 5 µg/l Fresh water Acute LC50 11 mg/l Marine water	Algae - Scenedesmus acutus Crustaceans - Gammarus duebeni	72 hours 48 hours
	Acute LC50 0.25 mg/l Fresh water Chronic NOEC 12 µg/l Fresh water	Daphnia - Daphnia magna - Neonate Crustaceans - Eurytemora affinis - Nauplii	48 hours 21 days
PAH Analyzer Calibration Sample # 2 Acetone	Acute EC50 20.565 mg/l Marine water Acute LC50 6000000 µg/l Fresh water Acute LC50 10000 µg/l Fresh water Acute LC50 5600 ppm Fresh water Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water	Algae - Ulva pertusa Crustaceans - Gammarus pulex Daphnia - Daphnia magna Fish - Poecilia reticulata Algae - Ulva pertusa Crustaceans - Daphniidae Daphnia - Daphnia magna - Neonate	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 21 days
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
PAH Analyzer Calibration Sample # 1 Acetone	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28 days	-	-
PAH Analyzer Calibration Sample # 2 Acetone	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
PAH Analyzer Calibration Sample # 1 Acetone Anthracene Fluoranthene	- - -	- - -	Readily Not readily Not readily
PAH Analyzer Calibration Sample # 2 Acetone	-	-	Readily

12.3 Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
PAH Analyzer Calibration Sample # 1			
Acetone	-0.23	3	low
Anthracene	4.65	2615	high
Fluoranthene	5.16	3630.78	high
Pyrene	5.43	1513.56	high
Benzo[a]pyrene	6.13	-	high
Dibenz[a,h]anthracene	6.75	-	high
PAH Analyzer Calibration Sample # 2			
Acetone	-0.23	3	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
PAH Analyzer Calibration Sample # 1 Acetone (I); 2-Propanone (I)	67-64-1	Listed	U002
PAH Analyzer Calibration Sample # 2 Acetone (I); 2-Propanone (I)	67-64-1	Listed	U002

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

Section 13. Disposal considerations

for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated.

IATA

Additional information

Remarks: De minimis quantities

DOT Classification : **Reportable quantity** 5001.7 lbs / 2270.8 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR:** naphthalene; Biphenyl; (²H₈)Naphthalene
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 307: naphthalene; 1-Methylnaphthalene; 2-Methylnaphthalene; Acenaphthylene; Acenaphthene; Fluorene; Phenanthrene; Anthracene; Fluoranthene; Pyrene; Benz[a]anthracene; Chrysene; Benz[e]acephenanthrylene; Benzo[k]fluoranthene; Benzo[a]pyrene; Indeno[1,2,3-cd]pyrene; Dibenz[a,h]anthracene; Benzo[ghi]perylene; Benzo[e]pyrene; Dibenz[a,c]anthracene; Benzo[j]fluoranthene; perylene; Perylene-D12; Chrysene-D12; Phenanthrene-D¹⁰; Acenaphthene-D10; (²H₈)Naphthalene
Clean Water Act (CWA) 311: naphthalene; (²H₈)Naphthalene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Listed

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
PAH Analyzer Calibration Sample # 1 Pyrene	≤0.0022	Yes.	1000 / 10000	-	5000	-

SARA 304 RQ : 769230769.2 lbs / 349230769.2 kg

SARA 311/312

Classification

PAH Analyzer Calibration Sample # 1	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
PAH Analyzer Calibration Sample # 2	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Composition/information on ingredients

Name	%	Classification
PAH Analyzer Calibration Sample # 1 Acetone	≥90	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
PAH Analyzer Calibration Sample # 2 Acetone	≥90	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	PAH Analyzer Calibration Sample # 1		
	Fluoranthene	206-44-0	≤0.0022
	Benz[a]anthracene	56-55-3	<0.01
	Chrysene	218-01-9	<0.1
	Benz[e]acephenanthrylene	205-99-2	<0.1
	Benzo[k]fluoranthene	207-08-9	<0.1
	Benzo[a]pyrene	50-32-8	≤0.0022
	Indeno[1,2,3-cd]pyrene	193-39-5	<0.1
	Dibenz[a,h]anthracene	53-70-3	≤0.0022
	Benzo[ghi]perylene	191-24-2	<0.1
	Benzo[j]fluoranthene	205-82-3	<0.1
	perylene	198-55-0	≤0.1
	PAH Analyzer Calibration Sample # 2		
	Chrysene-D12	1719-03-5	<0.1
Perylene-D12	1520-96-3	≤0.1	

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Section 15. Regulatory information

- Massachusetts** : The following components are listed: ACETONE
- New York** : The following components are listed: Acetone; 2-Propanone
- New Jersey** : The following components are listed: ACETONE; 2-PROPANONE
- Pennsylvania** : The following components are listed: 2-PROPANONE
- California Prop. 65**

⚠ WARNING: This product can expose you to chemicals including Naphthalene, Carbon-black extracts, Carbon-black extracts, Carbon-black extracts, Carbon-black extracts, Carbon-black extracts, Benz[a]anthracene, Chrysene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[a]pyrene, Indeno[1,2,3-cd]pyrene, Dibenz[a,h]anthracene, Carbon-black extracts, Carbon-black extracts, Dibenz[a,c]anthracene, Benzo[j]fluoranthene, Carbon-black extracts, Naphthalene, Carbon-black extracts, Chrysene-D12, Carbon-black extracts, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
PAH Analyzer Calibration Sample # 1		
Naphthalene	Yes.	-
Carbon-black extracts	-	-
Carbon-black extracts	-	-
Carbon-black extracts	-	-
Carbon-black extracts	-	-
Carbon-black extracts	-	-
Carbon-black extracts	-	-
Benz[a]anthracene	Yes.	-
Chrysene	Yes.	-
Benzo[b]fluoranthene	Yes.	-
Benzo[k]fluoranthene	-	-
Benzo[a]pyrene	Yes.	-
Indeno[1,2,3-cd]pyrene	-	-
Dibenz[a,h]anthracene	Yes.	-
Carbon-black extracts	-	-
Carbon-black extracts	-	-
Dibenz[a,c]anthracene	-	-
Benzo[j]fluoranthene	Yes.	-
Carbon-black extracts	-	-
PAH Analyzer Calibration Sample # 2		
Naphthalene	Yes.	-
Carbon-black extracts	-	-
Chrysene-D12	-	-
Carbon-black extracts	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Section 15. Regulatory information

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: <input checked="" type="checkbox"/> All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue	: 07/23/2018
Date of previous issue	: 08/31/2016
Version	: 6

Procedure used to derive the classification

Classification	Justification
PAH Analyzer Calibration Sample # 1 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method
PAH Analyzer Calibration Sample # 2 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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