

SAFETY DATA SHEET



PAH Analyzer Calibration Sample Kit, Part Number G3440-85009

SECTION 1: Identification of the substance/mixture and of the company/undertaking

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 G3440-85009-1
Calibration Sample # 1
PAH Analyzer G3440-85009-2
Calibration Sample # 2

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

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : PAH Analyzer Mixture
Calibration Sample # 1
PAH Analyzer Mixture
Calibration Sample # 2

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

PAH Analyzer Calibration Sample # 1

H225 FLAMMABLE LIQUIDS - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

PAH Analyzer Calibration Sample # 2

H225 FLAMMABLE LIQUIDS - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

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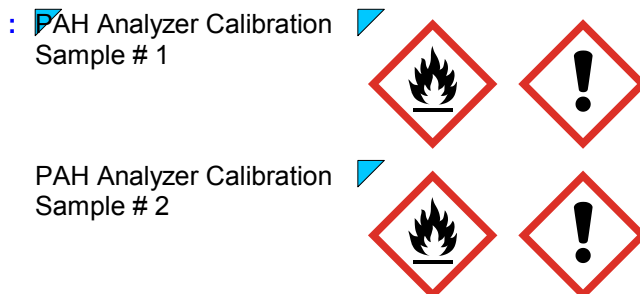
SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



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 vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.
PAH Analyzer Calibration Sample # 2
H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements

Prevention

: PAH Analyzer Calibration Sample # 1
P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment.
PAH Analyzer Calibration Sample # 2
P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response

: PAH Analyzer Calibration Sample # 1
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
PAH Analyzer Calibration Sample # 2
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Storage

: PAH Analyzer Calibration Sample # 1
P405 - Store locked up.
PAH Analyzer Calibration Sample # 2
P405 - Store locked up.

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.

Hazardous ingredients

: PAH Analyzer Calibration Sample # 1 - acetone
PAH Analyzer Calibration Sample # 2 - acetone

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SECTION 2: Hazards identification

Supplemental label elements	: PAH Analyzer Calibration Sample # 1	Not applicable.
	PAH Analyzer Calibration Sample # 2	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: PAH Analyzer Calibration Sample # 1	Not applicable.
	PAH Analyzer Calibration Sample # 2	Not applicable.
Special packaging requirements		
Tactile warning of danger	: PAH Analyzer Calibration Sample # 1	Not applicable.
	PAH Analyzer Calibration Sample # 2	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	: PAH Analyzer Calibration Sample # 1	None known.
	PAH Analyzer Calibration Sample # 2	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: PAH Analyzer Calibration Sample # 1	Mixture
	PAH Analyzer Calibration Sample # 2	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
PAH Analyzer Calibration Sample # 1 Acetone	EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Anthracene	EC: 204-371-1 CAS: 120-12-7	≤0.0017	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1] [3]
Fluoranthene	EC: 205-912-4 CAS: 206-44-0	≤0.0021	Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10)	[1]
Pyrene	EC: 204-927-3 CAS: 129-00-0	≤0.0017	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
Benz[a]anthracene	EC: 200-280-6 CAS: 56-55-3 Index: 601-033-00-9	≤0.0017	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
Benzo[a]pyrene	EC: 200-028-5 CAS: 50-32-8 Index: 601-032-00-3	≤0.0017	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD (Fertility and Unborn child) Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1] [3] [4]
Dibenz[a,h]anthracene	EC: 200-181-8 CAS: 53-70-3	≤0.0017	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100)	[1]

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SECTION 3: Composition/information on ingredients

PAH Analyzer Calibration Sample # 2 Acetone	Index: 601-041-00-2		Aquatic Chronic 1, H410 (M=100)	
	EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of 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 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.

SECTION 4: First aid measures

Skin contact	: PAH Analyzer Calibration Sample # 1	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.
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.

4.2 Most important symptoms and effects, both 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.
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.

SECTION 4: First aid measures

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.

Over-exposure signs/symptoms

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
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.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: PAH Analyzer Calibration Sample # 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: PAH Analyzer Calibration Sample # 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: PAH Analyzer Calibration Sample # 1	No specific treatment.
	: PAH Analyzer Calibration Sample # 2	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: PAH Analyzer Calibration Sample # 1	Highly flammable liquid and vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Hazardous combustion 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 precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves)

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SECTION 5: Firefighting measures

conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 vapour 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 vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: PAH Analyzer Calibration Sample # 1	If specialised 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".
	: PAH Analyzer Calibration Sample # 2	If specialised 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".

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: PAH Analyzer Calibration Sample # 1	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.
	: PAH Analyzer Calibration Sample # 2	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.

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SECTION 6: Accidental release measures

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: PAH Analyzer Calibration Sample # 1	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.
	PAH Analyzer Calibration Sample # 2	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
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

Storage	: 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
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SECTION 7: Handling and storage

PAH Analyzer
Calibration Sample # 2

in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
PAH Analyzer Calibration Sample # 1 P5c	5000	50000
PAH Analyzer Calibration Sample # 2 P5c	5000	50000

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
PAH Analyzer Calibration Sample # 1 Acetone	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 3620 mg/m ³ 15 minutes. STEL: 1500 ppm 15 minutes. TWA: 500 ppm 8 hours. TWA: 1210 mg/m ³ 8 hours.
PAH Analyzer Calibration Sample # 2 Acetone	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 3620 mg/m ³ 15 minutes. STEL: 1500 ppm 15 minutes. TWA: 500 ppm 8 hours. TWA: 1210 mg/m ³ 8 hours.

SECTION 8: Exposure controls/personal protection

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. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

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SECTION 8: Exposure controls/personal protection

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: PAH Analyzer	Liquid.
	Calibration Sample # 1	
	PAH Analyzer	Liquid.
	Calibration Sample # 2	
Colour	: PAH Analyzer	Not available.
	Calibration Sample # 1	
	PAH Analyzer	Not available.
	Calibration Sample # 2	
Odour	: PAH Analyzer	Not available.
	Calibration Sample # 1	
	PAH Analyzer	Not available.
	Calibration Sample # 2	
Odour threshold	: PAH Analyzer	Not available.
	Calibration Sample # 1	
	PAH Analyzer	Not available.
	Calibration Sample # 2	
pH	: PAH Analyzer	Not available.
	Calibration Sample # 1	
	PAH Analyzer	Not available.
	Calibration Sample # 2	
Melting point/freezing point	: PAH Analyzer	-94.2°C
	Calibration Sample # 1	
	PAH Analyzer	-94.2°C
	Calibration Sample # 2	
Initial boiling point and boiling range	: PAH Analyzer	56.1°C
	Calibration Sample # 1	
	PAH Analyzer	56.1°C
	Calibration Sample # 2	
Flash point	: PAH Analyzer	Closed cup: -18.15°C
	Calibration Sample # 1	
	PAH Analyzer	Closed cup: -18.15°C
	Calibration Sample # 2	
Evaporation rate	: PAH Analyzer	6.06 (butyl acetate = 1)
	Calibration Sample # 1	
	PAH Analyzer	6.06 (butyl acetate = 1)
	Calibration Sample # 2	
Flammability (solid, gas)	: PAH Analyzer	Not applicable.
	Calibration Sample # 1	
	PAH Analyzer	Not applicable.
	Calibration Sample # 2	
Upper/lower flammability or explosive limits	: PAH Analyzer	Not available.
	Calibration Sample # 1	
	PAH Analyzer	Not available.
	Calibration Sample # 2	
Vapour pressure	: PAH Analyzer	24.7 kPa [room temperature]
	Calibration Sample # 1	
	PAH Analyzer	24.7 kPa [room temperature]
	Calibration Sample # 2	

SECTION 9: Physical and chemical properties

Vapour density	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	2 [Air = 1] 2 [Air = 1]
Relative density	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.
Solubility(ies)	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.
Auto-ignition temperature	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.
Decomposition temperature	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.
Viscosity	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.
Explosive properties	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.
Oxidising properties	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

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SECTION 10: Stability and reactivity

10.4 Conditions to avoid	: PAH Analyzer Calibration Sample # 1	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
	PAH Analyzer Calibration Sample # 2	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour 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 Vapour	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 Vapour	Rat	76 mg/l	4 hours	
	LD50 Oral	Rat	5800 mg/kg	-	

Acute toxicity estimates

Not available.

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	-

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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	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient 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 likely routes of exposure

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

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

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.

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.

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.

SECTION 11: Toxicological information

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

Symptoms related to the physical, chemical and toxicological characteristics

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
Ingestion	: PAH Analyzer Calibration Sample # 1	No specific data.
	: PAH Analyzer Calibration Sample # 2	No specific data.
Skin contact	: PAH Analyzer Calibration Sample # 1	No specific data.
	: PAH Analyzer Calibration Sample # 2	No specific data.
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

Delayed and immediate effects as well as 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.

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SECTION 11: Toxicological information

Mutagenicity	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Other information	: PAH Analyzer Calibration Sample # 1 PAH Analyzer Calibration Sample # 2	Adverse symptoms may include the following: altered blood counts. Repeated exposure may cause skin dryness or cracking. 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
	Acute LC50 1.27 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Fluoranthene	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 tricornutum	72 hours
	Acute EC50 45 ppm Marine water	Algae - Skeletonema costatum	96 hours
	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
Pyrene	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

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SECTION 12: Ecological information

PAH Analyzer Calibration Sample # 2 Acetone	Acute LC50 0.89 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 97.5 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 5 µg/l Fresh water	Algae - Scenedesmus acutus	72 hours
	Acute LC50 11 mg/l Marine water	Crustaceans - Gammarus duebeni	48 hours
	Acute LC50 0.25 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 12 µg/l Fresh water	Crustaceans - Eurytemora affinis - Nauplii	21 days
	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	
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 - CO2 Evolution Test	95 % - Readily - 28 days	-	-
PAH Analyzer Calibration Sample # 2 Acetone	OECD 301B Ready Biodegradability - CO2 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

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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
Benz[a]anthracene	5.76	257.04	low
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.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

Additional information

Remarks: De minimis quantities

14.6 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.

14.7 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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
PAH Analyzer Calibration Sample # 1				
Benzo[a]pyrene	Carcinogen	Candidate	ED/21/2016	6/20/2016
-	Mutagen	Candidate	ED/21/2016	6/20/2016
-	Toxic to reproduction	Candidate	ED/21/2016	6/20/2016
-	PBT	Candidate	ED/21/2016	6/20/2016
-	vPvB	Candidate	ED/21/2016	6/20/2016
Anthracene	PBT	Candidate	ED/67/2008	10/28/2008

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : PAH Analyzer Calibration Sample # 1 Not applicable.
PAH Analyzer Calibration Sample # 2 Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

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SECTION 15: Regulatory information

Category

PAH Analyzer Calibration Sample # 1

P5c

PAH Analyzer Calibration Sample # 2

P5c

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

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.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision : 23/07/2018

21/23

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SECTION 16: Other information

Classification	Justification
PAH Analyzer Calibration Sample # 1 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method
PAH Analyzer Calibration Sample # 2 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

PAH Analyzer Calibration Sample # 1 H225 H302 H315 H317 H319 H335 H336 H340 H350 H360FD H400 H410 H412	Highly flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
PAH Analyzer Calibration Sample # 2 H225 H319 H336	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

Full text of classifications [CLP/GHS]

PAH Analyzer Calibration Sample # 1 Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 3, H412 Carc. 1B, H350 EUH066 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Muta. 1B, H340 Repr. 1B, H360FD Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336	ACUTE TOXICITY (oral) - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 CARCINOGENICITY - Category 1B Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 GERM CELL MUTAGENICITY - Category 1B REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
PAH Analyzer Calibration Sample # 2 EUH066 Eye Irrit. 2, H319 Flam. Liq. 2, H225 STOT SE 3, H336	Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

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SECTION 16: Other information

Date of issue/ Date of revision : 23/07/2018

Date of previous issue : 31/08/2016

Version : 2

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