

# SAFETY DATA SHEET



EN12916:2006 IP391-07 Sys. Cal. Std. 1,2, Part Number 5190-0485

## Section 1. Identification

### 1.1 Product identifier

**Product name** : EN12916:2006 IP391-07 Sys. Cal. Std. 1,2, Part Number 5190-0485  
**Part No. (Chemical Kit)** : 5190-0485  
**Part No.** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 5190-0485-1  
 EN12916:2006 IP391-07 Sys. Cal. Std. 2 5190-0485-2  
**Validation date** : 4/28/2016

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

**Material uses** : Analytical chemistry.  
 EN12916:2006 IP391-07 Sys. Cal. Std. 1 1 x 1ml  
 EN12916:2006 IP391-07 Sys. Cal. Std. 2 1 x 1ml

### 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** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 EN12916:2006 IP391-07 Sys. Cal. Std. 2 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

**EN12916:2006 IP391-07 Sys. Cal. Std. 1**

H225 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H351 CARCINOGENICITY - Category 2  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 H304 ASPIRATION HAZARD - Category 1

**EN12916:2006 IP391-07 Sys. Cal. Std. 2**

H225 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN IRRITATION - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

## Section 2. Hazards identification

H304 ASPIRATION HAZARD - Category 1

### 2.2 GHS label elements

#### Hazard pictograms



#### Signal word

: EN12916:2006 IP391-07 Sys. Cal. Std. 1 Danger  
 EN12916:2006 IP391-07 Sys. Cal. Std. 2 Danger

#### Hazard statements

: EN12916:2006 IP391-07 Sys. Cal. Std. 1 GHS SYMBOL - **Flame - Exclamation mark - Health hazard -**  
 H225 - Highly flammable liquid and vapor.  
 H319 - Causes serious eye irritation.  
 H315 - Causes skin irritation.  
 H351 - Suspected of causing cancer.  
 H304 - May be fatal if swallowed and enters airways.  
 H335 - May cause respiratory irritation.  
 H336 - May cause drowsiness or dizziness.

EN12916:2006 IP391-07 Sys. Cal. Std. 2 GHS SYMBOL - **Flame - Exclamation mark - Health hazard -**  
 H225 - Highly flammable liquid and vapor.  
 H319 - Causes serious eye irritation.  
 H315 - Causes skin irritation.  
 H304 - May be fatal if swallowed and enters airways.  
 H335 - May cause respiratory irritation.  
 H336 - May cause drowsiness or dizziness.

### Precautionary statements

#### Prevention

: EN12916:2006 IP391-07 Sys. Cal. Std. 1 P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
 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.  
 P261 - Avoid breathing vapor.  
 P264 - Wash hands thoroughly after handling.

EN12916:2006 IP391-07 Sys. Cal. Std. 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,

## Section 2. Hazards identification

### Response

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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.  
 P261 - Avoid breathing vapor.  
 P264 - Wash hands thoroughly after handling.  
 P308 + P313 - IF exposed or concerned: Get medical attention.  
 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.  
 P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 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.  
 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.  
 P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 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.

EN12916:2006 IP391-07 Sys. Cal.  
Std. 2

## Section 2. Hazards identification

<b>Storage</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
<b>Disposal</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	None known.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	None known.
<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	None known.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Mixture
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	Mixture

Ingredient name	%	CAS number
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Heptane	≥90	142-82-5
Cyclohexane	≤3	110-82-7
naphthalene	≤0.3	91-20-3
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Heptane	≥90	142-82-5

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

<b>Eye contact</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 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.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

## Section 4. First aid measures

### Inhalation

: EN12916:2006 IP391-07 Sys. Cal. Std. 1

Continue to rinse for at least 10 minutes. Get medical attention.

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.

EN12916:2006 IP391-07 Sys. Cal. Std. 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.

### Skin contact

: EN12916:2006 IP391-07 Sys. Cal. Std. 1

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

EN12916:2006 IP391-07 Sys. Cal. Std. 2

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Ingestion

: EN12916:2006 IP391-07 Sys. Cal. Std. 1

Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

## Section 4. First aid measures

EN12916:2006 IP391-07 Sys. Cal. Std. 2 Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Causes serious eye irritation.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Causes serious eye irritation.
- Inhalation** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Causes skin irritation.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Causes skin irritation.
- Ingestion** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

- Eye contact** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Adverse symptoms may include the following:  
pain or irritation  
watering  
redness  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

## Section 4. First aid measures

**Inhalation** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Adverse symptoms may include the following:

respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

EN12916:2006 IP391-07 Sys. Cal. Std. 2 Adverse symptoms may include the following:

respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Skin contact** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Adverse symptoms may include the following:

irritation  
redness

EN12916:2006 IP391-07 Sys. Cal. Std. 2 Adverse symptoms may include the following:

irritation  
redness

**Ingestion** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Adverse symptoms may include the following:

nausea or vomiting

EN12916:2006 IP391-07 Sys. Cal. Std. 2 Adverse symptoms may include the following:

nausea or vomiting

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

**Notes to physician** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

EN12916:2006 IP391-07 Sys. Cal. Std. 2 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 No specific treatment.

EN12916:2006 IP391-07 Sys. Cal. Std. 2 No specific treatment.

**Protection of first-aiders** : EN12916:2006 IP391-07 Sys. Cal. Std. 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.

EN12916:2006 IP391-07 Sys. Cal. Std. 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.

## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Do not use water jet.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards arising from the chemical** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- EN12916:2006 IP391-07 Sys. Cal. Std. 2 Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- EN12916:2006 IP391-07 Sys. Cal. Std. 2 Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : EN12916:2006 IP391-07 Sys. Cal. Std. 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.
- EN12916:2006 IP391-07 Sys. Cal. Std. 2 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No



## Section 5. Fire-fighting measures

### Special protective equipment for fire-fighters

: EN12916:2006 IP391-07 Sys. Cal. Std. 1

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.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

EN12916:2006 IP391-07 Sys. Cal. Std. 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

: EN12916:2006 IP391-07 Sys. Cal. Std. 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.

EN12916:2006 IP391-07 Sys. Cal. Std. 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.

#### For emergency responders

: EN12916:2006 IP391-07 Sys. Cal. Std. 1

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".

EN12916:2006 IP391-07 Sys. Cal. Std. 2

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".

### 6.2 Environmental precautions

: EN12916:2006 IP391-07 Sys. Cal. Std. 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.

EN12916:2006 IP391-07 Sys. Cal. Std. 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). Water polluting material. May be harmful to the environment if released in

## Section 6. Accidental release measures

large quantities.

### 6.3 Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 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.
	EN12916:2006 IP391-07 Sys. Cal. Std. 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.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. 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.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	Put on appropriate personal protective equipment (see Section 8). Do not swallow. 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

## Section 7. Handling and storage

		residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 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.
	EN12916:2006 IP391-07 Sys. Cal. Std. 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.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 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.
	EN12916:2006 IP391-07 Sys. Cal. Std. 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) 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.
<b>7.3 Specific end use(s)</b>		
<b>Recommendations</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Industrial applications, Professional applications.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not applicable.
	EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not applicable.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<p>EN12916:2006 IP391-07 Sys. Cal. Std. 1 Heptane</p> <p>Cyclohexane</p> <p>naphthalene</p>	<p><b>ACGIH TLV (United States, 3/2015).</b> TWA: 400 ppm 8 hours. TWA: 1640 mg/m<sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 2050 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 400 ppm 8 hours. TWA: 1600 mg/m<sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 2000 mg/m<sup>3</sup> 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 85 ppm 10 hours. TWA: 350 mg/m<sup>3</sup> 10 hours. CEIL: 440 ppm 15 minutes. CEIL: 1800 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 500 ppm 8 hours. TWA: 2000 mg/m<sup>3</sup> 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2015).</b> TWA: 100 ppm 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 300 ppm 8 hours. TWA: 1050 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 300 ppm 10 hours. TWA: 1050 mg/m<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 300 ppm 8 hours. TWA: 1050 mg/m<sup>3</sup> 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2015).</b> <b>Absorbed through skin.</b> TWA: 10 ppm 8 hours. TWA: 52 mg/m<sup>3</sup> 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m<sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 75 mg/m<sup>3</sup> 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 10 ppm 10 hours. TWA: 50 mg/m<sup>3</sup> 10 hours. STEL: 15 ppm 15 minutes. STEL: 75 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m<sup>3</sup> 8 hours.</p>
<p>EN12916:2006 IP391-07 Sys. Cal. Std. 2 Heptane</p>	<p><b>ACGIH TLV (United States, 3/2015).</b> TWA: 400 ppm 8 hours. TWA: 1640 mg/m<sup>3</sup> 8 hours.</p>

## Section 8. Exposure controls/personal protection

STEL: 500 ppm 15 minutes.  
 STEL: 2050 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
 TWA: 400 ppm 8 hours.  
 TWA: 1600 mg/m<sup>3</sup> 8 hours.  
 STEL: 500 ppm 15 minutes.  
 STEL: 2000 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2013).**  
 TWA: 85 ppm 10 hours.  
 TWA: 350 mg/m<sup>3</sup> 10 hours.  
 CEIL: 440 ppm 15 minutes.  
 CEIL: 1800 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 2/2013).**  
 TWA: 500 ppm 8 hours.  
 TWA: 2000 mg/m<sup>3</sup> 8 hours.

### 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.

### 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.

## Section 8. Exposure controls/personal protection

**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

<b>Physical state</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Liquid.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Liquid.
<b>Color</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Colorless.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Colorless.
<b>Odor</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>Odor threshold</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>pH</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>Melting point</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	-91°C (-131.8°F)
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	-91°C (-131.8°F)
<b>Boiling point</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	98°C (208.4°F)
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	98°C (208.4°F)
<b>Flash point</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Closed cup: -1.11°C (30°F)
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Closed cup: -1.11°C (30°F)
<b>Evaporation rate</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>Flammability (solid, gas)</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not applicable.
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	:	EN12916:2006 IP391-07 Sys. Cal. Std. 1	Lower: 1.05%
			Upper: 6.7%
		EN12916:2006 IP391-07 Sys. Cal. Std. 2	Lower: 1.05%
			Upper: 6.7%

## Section 9. Physical and chemical properties

<b>Vapor pressure</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>Vapor density</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	3.5 [Air = 1]
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	3.5 [Air = 1]
<b>Relative density</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	0.684
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	0.684
<b>Solubility</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Insoluble in the following materials: cold water and hot water.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>Auto-ignition temperature</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	215°C (419°F)
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	215°C (419°F)
<b>Decomposition temperature</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.
<b>Viscosity</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Not available.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	No specific test data related to reactivity available for this product or its ingredients.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	The product is stable.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

- 10.4 Conditions to avoid** : EN12916:2006 IP391-07 Sys. Cal. Std. 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.
- EN12916:2006 IP391-07 Sys. Cal. Std. 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** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Reactive or incompatible with the following materials:  
oxidizing materials
- EN12916:2006 IP391-07 Sys. Cal. Std. 2 Reactive or incompatible with the following materials:  
oxidizing materials
- 10.6 Hazardous decomposition products** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- EN12916:2006 IP391-07 Sys. Cal. Std. 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
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Heptane	LC50 Inhalation Vapor	Rat	103 g/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	48000 ppm	4 hours
Cyclohexane	LD50 Oral	Rat	6240 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Heptane	LC50 Inhalation Vapor	Rat	103 g/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	48000 ppm	4 hours

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> naphthalene	Skin - Mild irritant	Rabbit	-	495 milligrams	-

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity



## Section 11. Toxicological information

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
EN12916:2006 IP391-07 Sys. Cal. Std. 1 naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
EN12916:2006 IP391-07 Sys. Cal. Std. 1 Heptane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Cyclohexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
naphthalene	Category 3	Not applicable.	Respiratory tract irritation
EN12916:2006 IP391-07 Sys. Cal. Std. 2 Heptane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
EN12916:2006 IP391-07 Sys. Cal. Std. 1 naphthalene	Category 1	Not determined	blood system

### Aspiration hazard

Name	Result
EN12916:2006 IP391-07 Sys. Cal. Std. 1 EN12916:2006 IP391-07 Sys. Cal. Std. 1 Heptane Cyclohexane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
EN12916:2006 IP391-07 Sys. Cal. Std. 2 EN12916:2006 IP391-07 Sys. Cal. Std. 2 Heptane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

: EN12916:2006 IP391-07 Sys. Cal. Std. 1  
EN12916:2006 IP391-07 Sys. Cal. Std. 2

Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

## Section 11. Toxicological information

<b>Eye contact</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Causes serious eye irritation.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Causes serious eye irritation.
<b>Inhalation</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
<b>Skin contact</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Causes skin irritation.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Causes skin irritation.
<b>Ingestion</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Adverse symptoms may include the following: pain or irritation watering redness
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Adverse symptoms may include the following: irritation redness
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Adverse symptoms may include the following: irritation redness

## Section 11. Toxicological information

<b>Ingestion</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Adverse symptoms may include the following: nausea or vomiting
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Adverse symptoms may include the following: nausea or vomiting

### 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** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 No known significant effects or critical hazards.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 No known significant effects or critical hazards.

**Carcinogenicity** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 No known significant effects or critical hazards.

**Mutagenicity** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 No known significant effects or critical hazards.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 No known significant effects or critical hazards.

**Teratogenicity** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 No known significant effects or critical hazards.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 No known significant effects or critical hazards.

**Developmental effects** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 No known significant effects or critical hazards.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 No known significant effects or critical hazards.

**Fertility effects** : EN12916:2006 IP391-07 Sys. Cal. Std. 1 No known significant effects or critical hazards.  
EN12916:2006 IP391-07 Sys. Cal. Std. 2 No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

<b>Other information</b>	: EN12916:2006 IP391-07 Sys. Cal. Std. 1	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
	: EN12916:2006 IP391-07 Sys. Cal. Std. 2	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
Cyclohexane	Acute LC50 8300 µg/l Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
naphthalene	Acute EC50 1.6 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Heptane	4.66	552	high
Cyclohexane	3.44	167	low
naphthalene	3.4	36.5 to 168	low
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Heptane	4.66	552	high

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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

## Section 13. Disposal considerations

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
EN12916:2006 IP391-07 Sys. Cal. Std. 1 Cyclohexane (I); Benzene, hexahydro- (I)	110-82-7	Listed	U056

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

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

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

## Section 14. Transport information

### Regulatory information

**Additional information** : **Remarks**  
De minimis quantities

**DOT / IMDG / IATA** : Not regulated.

## 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**: Heptane; naphthalene  
**United States inventory (TSCA 8b)**: All components are listed or exempted.  
**Clean Water Act (CWA) 307**: naphthalene; Chrysene  
**Clean Water Act (CWA) 311**: Cyclohexane; o-xylene; 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)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

## Section 15. Regulatory information

**Classification** : Fire hazard  
 Immediate (acute) health hazard  
 Delayed (chronic) health hazard

### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Heptane Cyclohexane naphthalene	≥90 ≤3 ≤0.3	Yes. Yes. Yes.	No. No. No.	No. No. No.	Yes. Yes. Yes.	No. No. Yes.
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Heptane	≥90	Yes.	No.	No.	Yes.	No.

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Cyclohexane naphthalene	110-82-7 91-20-3	≤3 ≤0.3
	<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Chrysene	218-01-9	<0.1
<b>Supplier notification</b>	<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> Cyclohexane naphthalene	110-82-7 91-20-3	≤3 ≤0.3

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

**Massachusetts** : The following components are listed: HEPTANE (N-HEPTANE)

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: n-HEPTANE; HEPTANE

**Pennsylvania** : The following components are listed: HEPTANE

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 1</b> naphthalene Dibenzothiophene	Yes. Yes.	No. No.	Yes. No.	No. No.
<b>EN12916:2006 IP391-07 Sys. Cal. Std. 2</b> Chrysene	Yes.	No.	0.35 µg/day (ingestion)	No.

**Canada inventory** : All components are listed or exempted.

### International regulations

## Section 15. Regulatory information

<b>International lists</b>	: <b>Australia inventory (AICS)</b> : Not determined. <b>China inventory (IECSC)</b> : Not determined. <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined. <b>Korea inventory</b> : Not determined. <b>Malaysia Inventory (EHS Register)</b> : Not determined. <b>New Zealand Inventory of Chemicals (NZIoC)</b> : All components are listed or exempted. <b>Philippines inventory (PICCS)</b> : Not determined. <b>Taiwan Chemical Substances Inventory (TCSI)</b> : All components are listed or exempted. <b>Turkey inventory</b> : Not determined.
<b>Chemical Weapons Convention List Schedule I Chemicals</b>	: Not listed
<b>Chemical Weapons Convention List Schedule II Chemicals</b>	: Not listed
<b>Chemical Weapons Convention List Schedule III Chemicals</b>	: Not listed

## Section 16. Other information

### History

<b>Date of issue</b>	: 04/28/2016
<b>Date of previous issue</b>	: 05/30/2014.
<b>Version</b>	: 4

Indicates information that has changed from previously issued version.

### Notice to reader

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