

SAFETY DATA SHEET

Biodiesel EN14105 Kit, Part Number 5190-1409

Section 1. Identification

1.1 Product identifier

Product name : Biodiesel EN14105 Kit, Part Number 5190-1409

Part no. (chemical kit) : 5190-1409

Part no. : EN14105 - 2003 Standard Solution 1 in Pyridine Not available.
 EN14105 - 2003 Standard Solution 2 in Pyridine Not available.
 EN14105 - 2003 Standard Solution 3 in Pyridine Not available.
 EN14105 - 2003 Standard Solution 4 in Pyridine Not available.

Validation date : 8/23/2018

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
 EN14105 - 2003 Standard Solution 1 in Pyridine 1 x 1 ml
 EN14105 - 2003 Standard Solution 2 in Pyridine 1 x 1 ml
 EN14105 - 2003 Standard Solution 3 in Pyridine 1 x 1 ml
 EN14105 - 2003 Standard Solution 4 in Pyridine 1 x 1 ml

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : EN14105 - 2003 Standard Solution 1 in Pyridine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 EN14105 - 2003 Standard Solution 2 in Pyridine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 EN14105 - 2003 Standard Solution 3 in Pyridine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 EN14105 - 2003 Standard Solution 4 in Pyridine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

EN14105 - 2003 Standard Solution 1 in Pyridine

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H351	CARCINOGENICITY - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Section 2. Hazards identification

H402 Category 3
AQUATIC HAZARD (ACUTE) - Category 3

EN14105 - 2003 Standard Solution 2 in Pyridine

H225 FLAMMABLE LIQUIDS - Category 2
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4
H319 EYE IRRITATION - Category 2A
H351 CARCINOGENICITY - Category 2
H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
Category 3
H402 AQUATIC HAZARD (ACUTE) - Category 3

EN14105 - 2003 Standard Solution 3 in Pyridine

H225 FLAMMABLE LIQUIDS - Category 2
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4
H319 EYE IRRITATION - Category 2A
H351 CARCINOGENICITY - Category 2
H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
Category 3
H402 AQUATIC HAZARD (ACUTE) - Category 3

EN14105 - 2003 Standard Solution 4 in Pyridine

H225 FLAMMABLE LIQUIDS - Category 2
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4
H319 EYE IRRITATION - Category 2A
H351 CARCINOGENICITY - Category 2
H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
Category 3
H402 AQUATIC HAZARD (ACUTE) - Category 3

[2.2 GHS label elements](#)

Section 2. Hazards identification

Hazard pictograms

: EN14105 - 2003 Standard Solution 1 in Pyridine



EN14105 - 2003 Standard Solution 2 in Pyridine



EN14105 - 2003 Standard Solution 3 in Pyridine



EN14105 - 2003 Standard Solution 4 in Pyridine



Signal word

: EN14105 - 2003 Standard Solution 1 in Pyridine
 EN14105 - 2003 Standard Solution 2 in Pyridine
 EN14105 - 2003 Standard Solution 3 in Pyridine
 EN14105 - 2003 Standard Solution 4 in Pyridine

Danger

Danger

Danger

Danger

Hazard statements

: EN14105 - 2003 Standard Solution 1 in Pyridine

H225 - Highly flammable liquid and vapor.

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H336 - May cause drowsiness or dizziness.

H402 - Harmful to aquatic life.

H225 - Highly flammable liquid and vapor.

EN14105 - 2003 Standard Solution 2 in Pyridine

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H336 - May cause drowsiness or dizziness.

H402 - Harmful to aquatic life.

H225 - Highly flammable liquid and vapor.

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H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H336 - May cause drowsiness or dizziness.

H402 - Harmful to aquatic life.

H225 - Highly flammable liquid and vapor.

EN14105 - 2003 Standard Solution 4 in Pyridine

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H336 - May cause drowsiness or dizziness.

Section 2. Hazards identification

Precautionary statements

Prevention

: EN14105 - 2003 Standard
Solution 1 in Pyridine

H402 - Harmful to aquatic life.

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.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P201 - Obtain special instructions before use.

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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.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P201 - Obtain special instructions before use.

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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

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discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P261 - Avoid breathing vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 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.
 P273 - Avoid release to the environment.
 P261 - Avoid breathing vapor.
 P270 - Do not eat, drink or smoke when using this product.
 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 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

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.

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

Response

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Solution 1 in Pyridine

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Solution 2 in Pyridine

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you feel unwell.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

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P337 + P313 - If eye irritation persists: Get medical attention.

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P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse

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Solution 4 in Pyridine

Section 2. Hazards identification

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.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

None known.

None known.

None known.

None known.

None known.

None known.

None known.

None known.

Storage

: EN14105 - 2003 Standard Solution 1 in Pyridine

EN14105 - 2003 Standard Solution 2 in Pyridine

EN14105 - 2003 Standard Solution 3 in Pyridine

EN14105 - 2003 Standard Solution 4 in Pyridine

Disposal

: EN14105 - 2003 Standard Solution 1 in Pyridine

EN14105 - 2003 Standard Solution 2 in Pyridine

EN14105 - 2003 Standard Solution 3 in Pyridine

EN14105 - 2003 Standard Solution 4 in Pyridine

Supplemental label elements

: EN14105 - 2003 Standard Solution 1 in Pyridine
EN14105 - 2003 Standard Solution 2 in Pyridine
EN14105 - 2003 Standard Solution 3 in Pyridine
EN14105 - 2003 Standard Solution 4 in Pyridine

2.3 Other hazards

Hazards not otherwise classified

: EN14105 - 2003 Standard Solution 1 in Pyridine
EN14105 - 2003 Standard Solution 2 in Pyridine
EN14105 - 2003 Standard Solution 3 in Pyridine
EN14105 - 2003 Standard Solution 4 in Pyridine

Section 3. Composition/information on ingredients

Substance/mixture	: EN14105 - 2003 Standard Solution 1	Mixture
	in Pyridine	
	EN14105 - 2003 Standard Solution 2	Mixture
	in Pyridine	
	EN14105 - 2003 Standard Solution 3	Mixture
	in Pyridine	
	EN14105 - 2003 Standard Solution 4	Mixture
	in Pyridine	

Ingredient name	%	CAS number
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	≥90	110-86-1
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	≥90	110-86-1
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	≥90	110-86-1
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	≥90	110-86-1

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: EN14105 - 2003 Standard Solution 1 in Pyridine	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.
	EN14105 - 2003 Standard Solution 2 in Pyridine	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.
	EN14105 - 2003 Standard Solution 3 in Pyridine	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.
	EN14105 - 2003 Standard Solution 4 in Pyridine	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.

Section 4. First aid measures

Inhalation

: EN14105 - 2003 Standard
Solution 1 in Pyridine

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

EN14105 - 2003 Standard
Solution 2 in Pyridine

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

EN14105 - 2003 Standard
Solution 3 in Pyridine

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

EN14105 - 2003 Standard
Solution 4 in Pyridine

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

Section 4. First aid measures

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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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

Skin contact

: EN14105 - 2003 Standard
Solution 1 in Pyridine

EN14105 - 2003 Standard
Solution 2 in Pyridine

EN14105 - 2003 Standard
Solution 3 in Pyridine

EN14105 - 2003 Standard
Solution 4 in Pyridine

Ingestion

: EN14105 - 2003 Standard
Solution 1 in Pyridine

Section 4. First aid measures

EN14105 - 2003 Standard
Solution 2 in Pyridine

medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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.

EN14105 - 2003 Standard
Solution 3 in Pyridine

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.

EN14105 - 2003 Standard
Solution 4 in Pyridine

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

[4.2 Most important symptoms/effects, acute and delayed](#)

[Potential acute health effects](#)

Section 4. First aid measures

Eye contact	: EN14105 - 2003 Standard Solution 1 in Pyridine	Causes serious eye irritation.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Causes serious eye irritation.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Causes serious eye irritation.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Causes serious eye irritation.
Inhalation	: EN14105 - 2003 Standard Solution 1 in Pyridine	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: EN14105 - 2003 Standard Solution 1 in Pyridine	Harmful in contact with skin.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Harmful in contact with skin.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Harmful in contact with skin.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Harmful in contact with skin.
Ingestion	: EN14105 - 2003 Standard Solution 1 in Pyridine	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Harmful if swallowed. Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: EN14105 - 2003 Standard Solution 1 in Pyridine	Adverse symptoms may include the following: pain or irritation watering redness
	EN14105 - 2003 Standard Solution 2 in Pyridine	Adverse symptoms may include the following: pain or irritation watering redness
	EN14105 - 2003 Standard Solution 3 in Pyridine	Adverse symptoms may include the following: pain or irritation watering redness
	EN14105 - 2003 Standard Solution 4 in Pyridine	Adverse symptoms may include the following: pain or irritation watering redness

Section 4. First aid measures

Inhalation	: EN14105 - 2003 Standard Solution 1 in Pyridine	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	EN14105 - 2003 Standard Solution 2 in Pyridine	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	EN14105 - 2003 Standard Solution 3 in Pyridine	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	EN14105 - 2003 Standard Solution 4 in Pyridine	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: EN14105 - 2003 Standard Solution 1 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No specific data.
Ingestion	: EN14105 - 2003 Standard Solution 1 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No specific data.

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

Notes to physician	: EN14105 - 2003 Standard Solution 1 in Pyridine	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	EN14105 - 2003 Standard Solution 2 in Pyridine	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	EN14105 - 2003 Standard Solution 3 in Pyridine	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

Section 4. First aid measures

	EN14105 - 2003 Standard Solution 4 in Pyridine	surveillance for 48 hours. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: EN14105 - 2003 Standard Solution 1 in Pyridine	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	EN14105 - 2003 Standard Solution 2 in Pyridine	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	EN14105 - 2003 Standard Solution 3 in Pyridine	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	EN14105 - 2003 Standard Solution 4 in Pyridine	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Section 5. Fire-fighting measures

Suitable extinguishing media	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	Do not use water jet. Do not use water jet. Do not use water jet. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: EN14105 - 2003 Standard Solution 1 in Pyridine	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: EN14105 - 2003 Standard Solution 1 in Pyridine

explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides

EN14105 - 2003 Standard Solution 2 in Pyridine

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides

EN14105 - 2003 Standard Solution 3 in Pyridine

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides

EN14105 - 2003 Standard Solution 4 in Pyridine

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: EN14105 - 2003 Standard Solution 1 in Pyridine

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.

EN14105 - 2003 Standard Solution 2 in Pyridine

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.

EN14105 - 2003 Standard Solution 3 in Pyridine

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.

EN14105 - 2003 Standard Solution 4 in Pyridine

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.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	: EN14105 - 2003 Standard Solution 1 in Pyridine	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	EN14105 - 2003 Standard Solution 4 in Pyridine	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	: EN14105 - 2003 Standard Solution 1 in Pyridine	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.
	EN14105 - 2003 Standard Solution 2 in Pyridine	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.
	EN14105 - 2003 Standard Solution 3 in Pyridine	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.
	EN14105 - 2003 Standard Solution 4 in Pyridine	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

Section 6. Accidental release measures

<p>For emergency responders :</p>	<p>EN14105 - 2003 Standard Solution 1 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 2 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 3 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 4 in Pyridine</p>	<p>appropriate personal protective equipment.</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p>6.2 Environmental precautions :</p>	<p>EN14105 - 2003 Standard Solution 1 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 2 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 3 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 4 in Pyridine</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</p>
<p>6.3 Methods and materials for containment and cleaning up</p>	<p>Methods for cleaning up :</p>	<p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p> <p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof</p>
<p>EN14105 - 2003 Standard Solution 1 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 2 in Pyridine</p>	<p>EN14105 - 2003 Standard Solution 1 in Pyridine</p> <p>EN14105 - 2003 Standard Solution 2 in Pyridine</p>	<p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p> <p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof</p>

Section 6. Accidental release measures

EN14105 - 2003 Standard
Solution 3 in Pyridine

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.

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.

EN14105 - 2003 Standard
Solution 4 in Pyridine

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

Protective measures

: EN14105 - 2003 Standard
Solution 1 in Pyridine

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 ingest. 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.

EN14105 - 2003 Standard
Solution 2 in Pyridine

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 ingest. 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-

Section 7. Handling and storage

EN14105 - 2003 Standard
Solution 3 in Pyridine

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.

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 ingest. 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.

EN14105 - 2003 Standard
Solution 4 in Pyridine

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 ingest. 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.

Advice on general occupational hygiene

: EN14105 - 2003 Standard
Solution 1 in Pyridine

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.

EN14105 - 2003 Standard
Solution 2 in Pyridine

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

Section 7. Handling and storage

	<p>EN14105 - 2003 Standard Solution 3 in Pyridine</p>	<p>contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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.</p>
	<p>EN14105 - 2003 Standard Solution 4 in Pyridine</p>	<p>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.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	<p>: EN14105 - 2003 Standard Solution 1 in Pyridine</p>	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	<p>EN14105 - 2003 Standard Solution 2 in Pyridine</p>	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
	<p>EN14105 - 2003 Standard Solution 3 in Pyridine</p>	<p>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</p>

Section 7. Handling and storage

EN14105 - 2003 Standard
Solution 4 in Pyridine

environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	Not applicable. Not applicable. Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	ACGIH TLV (United States, 3/2017). TWA: 1 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 ppm 8 hours. TWA: 15 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 5 ppm 10 hours. TWA: 15 mg/m ³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 5 ppm 8 hours. TWA: 15 mg/m ³ 8 hours.
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	ACGIH TLV (United States, 3/2017). TWA: 1 ppm 8 hours.

Section 8. Exposure controls/personal protection

	<p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 ppm 8 hours. TWA: 15 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2016). TWA: 5 ppm 10 hours. TWA: 15 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 6/2016). TWA: 5 ppm 8 hours. TWA: 15 mg/m³ 8 hours.</p>
<p>EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine</p>	<p>ACGIH TLV (United States, 3/2017). TWA: 1 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 ppm 8 hours. TWA: 15 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2016). TWA: 5 ppm 10 hours. TWA: 15 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 6/2016). TWA: 5 ppm 8 hours. TWA: 15 mg/m³ 8 hours.</p>
<p>EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine</p>	<p>ACGIH TLV (United States, 3/2017). TWA: 1 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 ppm 8 hours. TWA: 15 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2016). TWA: 5 ppm 10 hours. TWA: 15 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 6/2016). TWA: 5 ppm 8 hours. TWA: 15 mg/m³ 8 hours.</p>

8.2 Exposure controls

Appropriate engineering controls

- Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Section 8. Exposure controls/personal protection

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

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

Respiratory protection

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

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

: EN14105 - 2003 Standard Solution 1 in Pyridine	Liquid.
EN14105 - 2003 Standard Solution 2 in Pyridine	Liquid.
EN14105 - 2003 Standard Solution 3 in Pyridine	Liquid.
EN14105 - 2003 Standard Solution 4 in Pyridine	Liquid.

Color

: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.

Odor

: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.

Odor threshold

: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.

pH

:

Section 9. Physical and chemical properties

	EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.
Melting point	: EN14105 - 2003 Standard Solution 1 in Pyridine	-42°C (-43.6°F)
	EN14105 - 2003 Standard Solution 2 in Pyridine	-42°C (-43.6°F)
	EN14105 - 2003 Standard Solution 3 in Pyridine	-42°C (-43.6°F)
	EN14105 - 2003 Standard Solution 4 in Pyridine	-42°C (-43.6°F)
Boiling point	: EN14105 - 2003 Standard Solution 1 in Pyridine	115°C (239°F)
	EN14105 - 2003 Standard Solution 2 in Pyridine	115°C (239°F)
	EN14105 - 2003 Standard Solution 3 in Pyridine	115°C (239°F)
	EN14105 - 2003 Standard Solution 4 in Pyridine	115°C (239°F)
Flash point	: EN14105 - 2003 Standard Solution 1 in Pyridine	Closed cup: 19.85°C (67.7°F)
	EN14105 - 2003 Standard Solution 2 in Pyridine	Closed cup: 19.85°C (67.7°F)
	EN14105 - 2003 Standard Solution 3 in Pyridine	Closed cup: 19.85°C (67.7°F)
	EN14105 - 2003 Standard Solution 4 in Pyridine	Closed cup: 19.85°C (67.7°F)
Evaporation rate	: EN14105 - 2003 Standard Solution 1 in Pyridine	1.37 (butyl acetate = 1)
	EN14105 - 2003 Standard Solution 2 in Pyridine	1.37 (butyl acetate = 1)
	EN14105 - 2003 Standard Solution 3 in Pyridine	1.37 (butyl acetate = 1)
	EN14105 - 2003 Standard Solution 4 in Pyridine	1.37 (butyl acetate = 1)
Flammability (solid, gas)	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not applicable.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not applicable.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not applicable.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not applicable.
Lower and upper explosive (flammable) limits	: EN14105 - 2003 Standard Solution 1 in Pyridine	Lower: 1.8%
	EN14105 - 2003 Standard Solution 2 in Pyridine	Upper: 12.5% Lower: 1.8%
	EN14105 - 2003 Standard Solution 3 in Pyridine	Upper: 12.5% Lower: 1.8%
		Upper: 12.5%

Section 9. Physical and chemical properties

	EN14105 - 2003 Standard Solution 4 in Pyridine	Lower: 1.8%
		Upper: 12.5%
Vapor pressure	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.
Vapor density	: EN14105 - 2003 Standard Solution 1 in Pyridine	2.73 [Air = 1]
	EN14105 - 2003 Standard Solution 2 in Pyridine	2.73 [Air = 1]
	EN14105 - 2003 Standard Solution 3 in Pyridine	2.73 [Air = 1]
	EN14105 - 2003 Standard Solution 4 in Pyridine	2.73 [Air = 1]
Relative density	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.
Solubility	: EN14105 - 2003 Standard Solution 1 in Pyridine	Easily soluble in the following materials: cold water and hot water.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Easily soluble in the following materials: cold water and hot water.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Easily soluble in the following materials: cold water and hot water.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.
Auto-ignition temperature	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.

Section 9. Physical and chemical properties

Decomposition temperature	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.
Viscosity	: EN14105 - 2003 Standard Solution 1 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Not available.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: EN14105 - 2003 Standard Solution 1 in Pyridine	No specific test data related to reactivity available for this product or its ingredients.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No specific test data related to reactivity available for this product or its ingredients.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No specific test data related to reactivity available for this product or its ingredients.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: EN14105 - 2003 Standard Solution 1 in Pyridine	The product is stable.
	EN14105 - 2003 Standard Solution 2 in Pyridine	The product is stable.
	EN14105 - 2003 Standard Solution 3 in Pyridine	The product is stable.
	EN14105 - 2003 Standard Solution 4 in Pyridine	The product is stable.
10.3 Possibility of hazardous reactions	: EN14105 - 2003 Standard Solution 1 in Pyridine	Under normal conditions of storage and use, hazardous reactions will not occur.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Under normal conditions of storage and use, hazardous reactions will not occur.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Under normal conditions of storage and use, hazardous reactions will not occur.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: EN14105 - 2003 Standard Solution 1 in Pyridine	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.
	EN14105 - 2003 Standard Solution 2 in Pyridine	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.
	EN14105 - 2003 Standard	Avoid all possible sources of ignition (spark or

Section 10. Stability and reactivity

Solution 3 in Pyridine

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.

EN14105 - 2003 Standard
Solution 4 in Pyridine

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 : EN14105 - 2003 Standard
Solution 1 in Pyridine

Reactive or incompatible with the following materials:
oxidizing materials

EN14105 - 2003 Standard
Solution 2 in Pyridine

Reactive or incompatible with the following materials:

EN14105 - 2003 Standard
Solution 3 in Pyridine

oxidizing materials

Reactive or incompatible with the following materials:

EN14105 - 2003 Standard
Solution 4 in Pyridine

oxidizing materials

Reactive or incompatible with the following materials:

oxidizing materials

10.6 Hazardous decomposition products : EN14105 - 2003 Standard
Solution 1 in Pyridine

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

EN14105 - 2003 Standard
Solution 2 in Pyridine

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

EN14105 - 2003 Standard
Solution 3 in Pyridine

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

EN14105 - 2003 Standard
Solution 4 in Pyridine

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
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	LC50 Inhalation Vapor	Rat	9010 ppm	1 hours
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	LC50 Inhalation Vapor	Rat	9010 ppm	1 hours
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	LC50 Inhalation Vapor	Rat	9010 ppm	1 hours
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	LC50 Inhalation Vapor	Rat	9010 ppm	1 hours

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	-	2B	-
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	-	2B	-
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	-	2B	-
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	-	2B	-

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	Category 3	Not applicable.	Narcotic effects
<input checked="" type="checkbox"/> EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	Category 3	Not applicable.	Narcotic effects
<input checked="" type="checkbox"/> EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	Category 3	Not applicable.	Narcotic effects
<input checked="" type="checkbox"/> EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: EN14105 - 2003 Standard Solution 1 in Pyridine
EN14105 - 2003 Standard Solution 2 in Pyridine
EN14105 - 2003 Standard Solution 3 in Pyridine
EN14105 - 2003 Standard Solution 4 in Pyridine

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

: EN14105 - 2003 Standard Solution 1 in Pyridine
EN14105 - 2003 Standard Solution 2 in Pyridine
EN14105 - 2003 Standard Solution 3 in Pyridine
EN14105 - 2003 Standard Solution 4 in Pyridine

Causes serious eye irritation.

Causes serious eye irritation.

Causes serious eye irritation.

Causes serious eye irritation.

Inhalation

: EN14105 - 2003 Standard Solution 1 in Pyridine

EN14105 - 2003 Standard Solution 2 in Pyridine

EN14105 - 2003 Standard Solution 3 in Pyridine

EN14105 - 2003 Standard Solution 4 in Pyridine

Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact

: EN14105 - 2003 Standard Solution 1 in Pyridine
EN14105 - 2003 Standard Solution 2 in Pyridine
EN14105 - 2003 Standard Solution 3 in Pyridine
EN14105 - 2003 Standard

Harmful in contact with skin.

Harmful in contact with skin.

Harmful in contact with skin.

Harmful in contact with skin.

Section 11. Toxicological information

Ingestion	Solution 4 in Pyridine	
	: EN14105 - 2003 Standard	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	Solution 1 in Pyridine	
	EN14105 - 2003 Standard	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	Solution 2 in Pyridine	
	EN14105 - 2003 Standard	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	Solution 3 in Pyridine	
	EN14105 - 2003 Standard	Harmful if swallowed. Can cause central nervous system (CNS) depression.
	Solution 4 in Pyridine	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 1 in Pyridine	pain or irritation watering redness
	EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 2 in Pyridine	pain or irritation watering redness
	EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 3 in Pyridine	pain or irritation watering redness
	EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 4 in Pyridine	pain or irritation watering redness
Inhalation	: EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 1 in Pyridine	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 2 in Pyridine	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 3 in Pyridine	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	EN14105 - 2003 Standard	Adverse symptoms may include the following:
	Solution 4 in Pyridine	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo

Section 11. Toxicological information

		unconsciousness
Skin contact	: EN14105 - 2003 Standard Solution 1 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No specific data.
Ingestion	: EN14105 - 2003 Standard Solution 1 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No specific data.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No specific data.
<u>Delayed and immediate effects and also chronic effects from short and long term exposure</u>		
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Potential chronic health effects</u>		
General	: EN14105 - 2003 Standard Solution 1 in Pyridine	No known significant effects or critical hazards.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No known significant effects or critical hazards.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No known significant effects or critical hazards.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No known significant effects or critical hazards.
Carcinogenicity	: EN14105 - 2003 Standard Solution 1 in Pyridine	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: EN14105 - 2003 Standard Solution 1 in Pyridine	No known significant effects or critical hazards.
	EN14105 - 2003 Standard Solution 2 in Pyridine	No known significant effects or critical hazards.
	EN14105 - 2003 Standard Solution 3 in Pyridine	No known significant effects or critical hazards.
	EN14105 - 2003 Standard Solution 4 in Pyridine	No known significant effects or critical hazards.

Section 11. Toxicological information

Teratogenicity	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: EN14105 - 2003 Standard Solution 1 in Pyridine EN14105 - 2003 Standard Solution 2 in Pyridine EN14105 - 2003 Standard Solution 3 in Pyridine EN14105 - 2003 Standard Solution 4 in Pyridine	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
EN14105 - 2003 Standard Solution 1 in Pyridine Oral Dermal Inhalation (vapors)	892.1 mg/kg 1121.4 mg/kg 12.92 mg/l
EN14105 - 2003 Standard Solution 2 in Pyridine Oral Dermal Inhalation (vapors)	892.7 mg/kg 1122.1 mg/kg 12.92 mg/l
EN14105 - 2003 Standard Solution 3 in Pyridine Oral Dermal Inhalation (vapors)	893.2 mg/kg 1122.8 mg/kg 12.93 mg/l
EN14105 - 2003 Standard Solution 4 in Pyridine Oral Dermal Inhalation (vapors)	893.8 mg/kg 1123.5 mg/kg 12.94 mg/l

Section 11. Toxicological information

Other information	: EN14105 - 2003 Standard Solution 1 in Pyridine	Adverse symptoms include the following: central nervous system depression , headache , nausea or vomiting , kidney abnormalities . Over-exposure may cause serious liver disorders.
	EN14105 - 2003 Standard Solution 2 in Pyridine	Adverse symptoms include the following: central nervous system depression , headache , nausea or vomiting , kidney abnormalities . Over-exposure may cause serious liver disorders.
	EN14105 - 2003 Standard Solution 3 in Pyridine	Adverse symptoms include the following: central nervous system depression , headache , nausea or vomiting , kidney abnormalities . Over-exposure may cause serious liver disorders.
	EN14105 - 2003 Standard Solution 4 in Pyridine	Adverse symptoms include the following: central nervous system depression , headache , nausea or vomiting , kidney abnormalities . Over-exposure may cause serious liver disorders.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	Acute EC50 110000 µg/l Fresh water Acute LC50 182000 µg/l Fresh water Acute LC50 520000 µg/l Fresh water Acute LC50 26000 µg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex Fish - Cyprinus carpio	96 hours 48 hours 48 hours 96 hours
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	Acute EC50 110000 µg/l Fresh water Acute LC50 182000 µg/l Fresh water Acute LC50 520000 µg/l Fresh water Acute LC50 26000 µg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex Fish - Cyprinus carpio	96 hours 48 hours 48 hours 96 hours
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	Acute EC50 110000 µg/l Fresh water Acute LC50 182000 µg/l Fresh water Acute LC50 520000 µg/l Fresh water Acute LC50 26000 µg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex Fish - Cyprinus carpio	96 hours 48 hours 48 hours 96 hours
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	Acute EC50 110000 µg/l Fresh water Acute LC50 182000 µg/l Fresh water Acute LC50 520000 µg/l Fresh water Acute LC50 26000 µg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia pulex Fish - Cyprinus carpio	96 hours 48 hours 48 hours 96 hours

12.2 Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	-	-	Readily
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	-	-	Readily
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	-	-	Readily
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	0.64	-	low
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	0.64	-	low
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	0.64	-	low
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	0.64	-	low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

Section 13. Disposal considerations

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
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	110-86-1	Listed	U196
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	110-86-1	Listed	U196
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	110-86-1	Listed	U196
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	110-86-1	Listed	U196

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

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

IATA

Additional information

Remarks: De minimis quantities

DOT Classification : **Reportable quantity** 1002.2 lbs / 454.98 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

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

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

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Section 15. Regulatory information

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

Classification	: EN14105 - 2003 Standard Solution 1 in Pyridine	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2
	EN14105 - 2003 Standard Solution 2 in Pyridine	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2
	EN14105 - 2003 Standard Solution 3 in Pyridine	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2
	EN14105 - 2003 Standard Solution 4 in Pyridine	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Composition/information on ingredients

Name	%	Classification
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Section 15. Regulatory information

EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	≥90	Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	110-86-1	≥90
	EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	110-86-1	≥90
	EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	110-86-1	≥90
	EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	110-86-1	≥90
Supplier notification	EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	110-86-1	≥90
	EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	110-86-1	≥90
	EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	110-86-1	≥90
	EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	110-86-1	≥90


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.

Section 15. Regulatory information

State regulations

- Massachusetts** : The following components are listed: PYRIDINE
New York : The following components are listed: Pyridine
New Jersey : The following components are listed: PYRIDINE
Pennsylvania : The following components are listed: PYRIDINE

California Prop. 65

 **WARNING:** This product can expose you to Pyridine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
EN14105 - 2003 Standard Solution 1 in Pyridine Pyridine	-	-
EN14105 - 2003 Standard Solution 2 in Pyridine Pyridine	-	-
EN14105 - 2003 Standard Solution 3 in Pyridine Pyridine	-	-
EN14105 - 2003 Standard Solution 4 in Pyridine Pyridine	-	-

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 : All components are listed or exempted.

Section 15. Regulatory information

Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue	: 08/23/2018
Date of previous issue	: 02/28/2017
Version	: 5

Procedure used to derive the classification

Classification	Justification
EN14105 - 2003 Standard Solution 1 in Pyridine FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (ACUTE) - Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
EN14105 - 2003 Standard Solution 2 in Pyridine FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (ACUTE) - Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
EN14105 - 2003 Standard Solution 3 in Pyridine FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 AQUATIC HAZARD (ACUTE) - Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
EN14105 - 2003 Standard Solution 4 in Pyridine FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

Section 16. Other information

AQUATIC HAZARD (ACUTE) - Category 3

Calculation method

✔ Indicates information that has changed from previously issued version.

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