

SAFETY DATA SHEET

2D-LC Easy Starter Kit, Part Number G4236-68000

Section 1. Identification

1.1 Product identifier

Product name : 2D-LC Easy Starter Kit, Part Number G4236-68000
Part No. (Chemical Kit) : G4236-68000
Part No. : 2D-LC Solution, Part Number 5190-6895 5190-6895
 Formic Acid, Part Number G2453-85060 G2453-85060
Validation date : 08/26/2014.

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

Material uses : Analytical reagent.
 2D-LC Solution, Part Number 5190-6895 1 x 2 ml
 Formic Acid, Part Number G2453-85060 5 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 Logistics Center - Americas
 500 Ships Landing Way
 New Castle, Delaware 19720
 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 : 2D-LC Solution, Part Number 5190-6895 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 Formic Acid, Part Number G2453-85060 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

2D-LC Solution, Part Number 5190-6895

H225 FLAMMABLE LIQUIDS - Category 2
 H302 ACUTE TOXICITY (oral) - Category 4
 H312 ACUTE TOXICITY (dermal) - Category 4
 H332 ACUTE TOXICITY (inhalation) - Category 4
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 H317 SKIN SENSITIZATION - Category 1
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Formic Acid, Part Number G2453-85060

H226 FLAMMABLE LIQUIDS - Category 3

Section 2. Hazards identification

H302	ACUTE TOXICITY (oral) - Category 4
H314	SKIN CORROSION/IRRITATION - Category 1A
H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

Ingredients of unknown toxicity	: 2D-LC Solution, Part Number 5190-6895	Not applicable.
	Formic Acid, Part Number G2453-85060	Not applicable.

2.2 GHS label elements

Hazard pictograms



Signal word	: 2D-LC Solution, Part Number 5190-6895	Danger
	Formic Acid, Part Number G2453-85060	Danger

Hazard statements	: 2D-LC Solution, Part Number 5190-6895	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.
	Formic Acid, Part Number G2453-85060	H226 - Flammable liquid and vapor. H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H370 - Causes damage to organs.

Precautionary statements

Prevention

: 2D-LC Solution, Part Number 5190-6895	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, sparks, open flames and hot surfaces. - 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. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
	Formic Acid, Part Number G2453-85060

Section 2. Hazards identification

Response

: 2D-LC Solution, Part Number
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P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P314 - Get medical attention if you feel unwell.
 P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.
 P333 + P313 - If skin irritation or rash occurs: Get medical attention.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.
 P307 + P311 - IF exposed: Call a POISON CENTER or physician.
 P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
 P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
 P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
 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.

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Storage

: 2D-LC Solution, Part Number
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Section 2. Hazards identification

Disposal	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	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.
Supplemental label elements	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Avoid contact with skin and clothing. Wash thoroughly after handling. None known.
2.3 Other hazards		
Hazards not otherwise classified	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Mixture Mixture
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Ingredient name	%	CAS number
2D-LC Solution, Part Number 5190-6895		
Acetonitrile	60 - 100	75-05-8
Acetone	10 - 30	67-64-1
Atrazine (ISO)	0.1 - 1	1912-24-9
desethylterbutylazine	0.1 - 1	30125-63-4
Formic Acid, Part Number G2453-85060		
Formic acid	60 - 100	64-18-6

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	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	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. Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
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Section 4. First aid measures

Inhalation

: 2D-LC Solution, Part Number
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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. Get medical attention immediately. Call a poison center or physician. 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. 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.

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Skin contact

: 2D-LC Solution, Part Number
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Wash skin thoroughly with soap and water or use recognized skin cleanser. 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion	: 2D-LC Solution, Part Number 5190-6895	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.
	Formic Acid, Part Number G2453-85060	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 2D-LC Solution, Part Number 5190-6895	Causes serious eye irritation.
	Formic Acid, Part Number G2453-85060	Causes serious eye damage.
Inhalation	: 2D-LC Solution, Part Number 5190-6895	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Formic Acid, Part Number G2453-85060	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	: 2D-LC Solution, Part Number 5190-6895	Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
	Formic Acid, Part Number G2453-85060	Causes severe burns.
Ingestion	: 2D-LC Solution, Part Number 5190-6895	Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
	Formic Acid, Part Number G2453-85060	Harmful if swallowed. May cause burns to mouth, throat and stomach.

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: 2D-LC Solution, Part Number 5190-6895	Adverse symptoms may include the following: pain or irritation watering redness
	Formic Acid, Part Number G2453-85060	Adverse symptoms may include the following: pain watering redness
Inhalation	: 2D-LC Solution, Part Number 5190-6895	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness No specific data.
	Formic Acid, Part Number G2453-85060	
Skin contact	: 2D-LC Solution, Part Number 5190-6895	Adverse symptoms may include the following: irritation redness dryness cracking
	Formic Acid, Part Number G2453-85060	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: 2D-LC Solution, Part Number 5190-6895	No specific data.
	Formic Acid, Part Number G2453-85060	Adverse symptoms may include the following: stomach pains

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

Notes to physician	: 2D-LC Solution, Part Number 5190-6895	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.
	Formic Acid, Part Number G2453-85060	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 2D-LC Solution, Part Number 5190-6895	No specific treatment.
	Formic Acid, Part Number G2453-85060	No specific treatment.
Protection of first-aiders	: 2D-LC Solution, Part Number 5190-6895	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.
	Formic Acid, Part Number G2453-85060	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 4. First aid measures

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

Suitable extinguishing media	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	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	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides	

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

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pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : 2D-LC Solution, Part Number 5190-6895
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).
- Formic Acid, Part Number G2453-85060
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

- 2D-LC Solution, Part Number 5190-6895
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.
- Formic Acid, Part Number G2453-85060
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** : 2D-LC Solution, Part Number 5190-6895
Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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

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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). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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

- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : 2D-LC Solution, Part Number
5190-6895

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.

Formic Acid, Part Number
G2453-85060

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.

7.3 Specific end use(s)

Section 7. Handling and storage

Recommendations	: 2D-LC Solution, Part Number 5190-6895	Industrial applications, Professional applications.
	: Formic Acid, Part Number G2453-85060	Industrial applications, Professional applications.
Industrial sector specific solutions	: Not applicable.	

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2D-LC Solution, Part Number 5190-6895 Acetonitrile	<p>ACGIH TLV (United States, 6/2013). Absorbed through skin. TWA: 20 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2013). TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.</p>
Acetone	<p>ACGIH TLV (United States, 6/2013). TWA: 500 ppm 8 hours. TWA: 1188 mg/m³ 8 hours. STEL: 750 ppm 15 minutes. STEL: 1782 mg/m³ 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 750 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 2400 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2013). TWA: 250 ppm 10 hours. TWA: 590 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 2400 mg/m³ 8 hours.</p>
Atrazine (ISO)	<p>ACGIH TLV (United States, 6/2013). TWA: 5 mg/m³ 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2013). TWA: 5 mg/m³ 10 hours.</p>
Formic Acid, Part Number G2453-85060 Formic acid	<p>ACGIH TLV (United States, 6/2013). TWA: 5 ppm 8 hours. TWA: 9.4 mg/m³ 8 hours. STEL: 10 ppm 15 minutes.</p>

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STEL: 19 mg/m³ 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
 TWA: 5 ppm 8 hours.
 TWA: 9 mg/m³ 8 hours.
NIOSH REL (United States, 10/2013).
 TWA: 5 ppm 10 hours.
 TWA: 9 mg/m³ 10 hours.
OSHA PEL (United States, 2/2013).
 TWA: 5 ppm 8 hours.
 TWA: 9 mg/m³ 8 hours.

8.2 Exposure controls

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

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

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

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

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: 2D-LC Solution, Part Number 5190-6895	Liquid.
	Formic Acid, Part Number G2453-85060	Liquid.
Color	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	Clear. Colorless.
Odor	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	Pungent.
Odor threshold	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	Not available.
pH	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	Not available.
Melting point	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	8°C (46.4°F)
Boiling point	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	101°C (213.8°F)
Flash point	: 2D-LC Solution, Part Number 5190-6895	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
	Formic Acid, Part Number G2453-85060	Closed cup: 59°C (138.2°F)
Evaporation rate	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	Not available.
Flammability (solid, gas)	: 2D-LC Solution, Part Number 5190-6895	Not applicable.
	Formic Acid, Part Number G2453-85060	Not available.
Lower and upper explosive (flammable) limits	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	Lower: 18% Upper: 57%
Vapor pressure	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	5.3 kPa (40 mm Hg) [room temperature]
Vapor density	: 2D-LC Solution, Part Number 5190-6895	Not available.
	Formic Acid, Part Number G2453-85060	1.6 [Air = 1]

Section 9. Physical and chemical properties

Relative density	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. Not available.
Solubility	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. Easily soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.	
Partition coefficient: n-octanol/water	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. Not available.
Auto-ignition temperature	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. 601°C (1113.8°F)
Decomposition temperature	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. Not available.
Viscosity	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	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. 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.

Section 10. Stability and reactivity

10.5 Incompatible materials	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2D-LC Solution, Part Number 5190-6895 Acetonitrile Acetone Atrazine (ISO)	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Dermal	Rabbit	980 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	5200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	7500 mg/kg	-
	LD50 Dermal	Rat	3 g/kg	-
	LD50 Oral	Rat	672 mg/kg	-
	Formic Acid, Part Number G2453-85060 Formic acid	LC50 Inhalation Dusts and mists	Rat	7400 mg/m ³
LD50 Oral		Rat	730 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
2D-LC Solution, Part Number 5190-6895 Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-	
	Skin - Mild irritant	Rabbit	-	500 milligrams	-	
	Acetone	Eyes - Mild irritant	Rabbit	-	10 microliters	-
		Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Atrazine (ISO)	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
		Skin - Mild irritant	Rabbit	-	395 milligrams	-
Formic Acid, Part Number G2453-85060 Formic acid	Eyes - Severe irritant	Rabbit	-	6320 Micrograms	-	
	Skin - Mild irritant	Rabbit	-	38 milligrams	-	
Formic Acid, Part Number G2453-85060 Formic acid	Eyes - Severe irritant	Rabbit	-	122	-	

Section 11. Toxicological information

milligrams

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2D-LC Solution, Part Number 5190-6895 Atrazine (ISO)	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2D-LC Solution, Part Number 5190-6895 Acetone	Category 3	Not applicable.	Narcotic effects
Formic Acid, Part Number G2453-85060 Formic acid	Category 1	Not determined	respiratory tract

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2D-LC Solution, Part Number 5190-6895 Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
Atrazine (ISO)	Category 2	Oral	liver

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : 2D-LC Solution, Part Number 5190-6895 Causes serious eye irritation.
Formic Acid, Part Number G2453-85060 Causes serious eye damage.

Section 11. Toxicological information

Inhalation	: 2D-LC Solution, Part Number 5190-6895	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Formic Acid, Part Number G2453-85060	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	: 2D-LC Solution, Part Number 5190-6895	Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
	Formic Acid, Part Number G2453-85060	Causes severe burns.
Ingestion	: 2D-LC Solution, Part Number 5190-6895	Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
	Formic Acid, Part Number G2453-85060	Harmful if swallowed. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 2D-LC Solution, Part Number 5190-6895	Adverse symptoms may include the following: pain or irritation watering redness
	Formic Acid, Part Number G2453-85060	Adverse symptoms may include the following: pain watering redness
Inhalation	: 2D-LC Solution, Part Number 5190-6895	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Formic Acid, Part Number G2453-85060	No specific data.
Skin contact	: 2D-LC Solution, Part Number 5190-6895	Adverse symptoms may include the following: irritation redness dryness cracking
	Formic Acid, Part Number G2453-85060	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: 2D-LC Solution, Part Number 5190-6895	No specific data.
	Formic Acid, Part Number G2453-85060	Adverse symptoms may include the following: stomach pains

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards.
Carcinogenicity	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
2D-LC Solution, Part Number 5190-6895 Oral Dermal Inhalation (vapors)	680 mg/kg 1332.8 mg/kg 14.96 mg/l
Formic Acid, Part Number G2453-85060 Oral	772.5 mg/kg

Other information	: 2D-LC Solution, Part Number 5190-6895 Formic Acid, Part Number G2453-85060	Not available. Not available.
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Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2D-LC Solution, Part Number 5190-6895	Acetonitrile	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 48 hours 96 hours
	Acetone	Aquatic plants - Lemna minor Daphnia - Daphnia magna Algae - Ulva pertusa Crustaceans - Gammarus pulex Daphnia - Daphnia magna Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 21 days 96 hours 48 hours 48 hours 96 hours
Atrazine (ISO)	Chronic NOEC 1000000 µg/l Fresh water Chronic NOEC 160000 µg/l Fresh water Acute EC50 20.565 mg/l Marine water Acute LC50 6000000 µg/l Fresh water Acute LC50 10000 µg/l Fresh water Acute LC50 100 mg/l Fresh water	Algae - Ulva pertusa Crustaceans - Daphniidae Daphnia - Daphnia magna - Neonate	96 hours 21 days 21 days
	Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water	Fish - Gasterosteus aculeatus - Larvae	42 days
	Chronic NOEC 5 µg/l Marine water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.004 mg/l Fresh water	Algae - Scenedesmus acutus	72 hours
	Acute EC50 11 µg/l Fresh water Acute EC50 92 µg/l Fresh water Acute EC50 240 µg/l Acute LC50 373.9 µg/l Marine water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Crustaceans - Acartia tonsa - Adult	96 hours 48 hours 48 hours
	Acute LC50 2000 µg/l Marine water	Fish - Cyprinodon variegatus - Larvae	96 hours
	Chronic NOEC 0.0005 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 7.47 µg/l Fresh water	Aquatic plants - Oryza sativa - Seed	4 days
	Chronic NOEC 25 µg/l Fresh water	Crustaceans - Eurytemora affinis - Nauplii	21 days
	Chronic NOEC 5 mg/l Fresh water Chronic NOEC 3 µg/l Fresh water	Daphnia - Daphnia magna - Neonate Fish - Gobiocypris rarus - Sexually mature	21 days 28 days
Formic Acid, Part Number G2453-85060	Formic acid	Daphnia - Daphnia magna - Larvae Crustaceans - Carcinus maenas - Adult	48 hours 48 hours

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2D-LC Solution, Part Number 5190-6895			
Acetonitrile	-	-	Readily

Section 12. Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2D-LC Solution, Part Number 5190-6895			
Acetonitrile	-0.34	-	low
Acetone	-0.23	-	low
Atrazine (ISO)	2.59	7.94	low
Formic Acid, Part Number G2453-85060			
Formic acid	-2.3	-	low

12.4 Mobility in soil

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

12.5 Other adverse effects : 2D-LC Solution, Part Number 5190-6895 No known significant effects or critical hazards.
Formic Acid, Part Number G2453-85060 No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

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





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

Additional information : Special provisions
251, 340

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT	UN3316	Chemical kits. Marine pollutant (Acetonitrile) RQ (Formic acid, Acetonitrile)	9	II	 	<p>The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes.</p> <p>Reportable quantity 10582 lbs / 4804.2 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p>Limited quantity Yes.</p> <p>Packaging instruction Passenger aircraft Quantity limitation: 10 kg Cargo aircraft Quantity limitation: 10 kg</p> <p>Special provisions 15</p>
TDG	UN3316	CHEMICAL KIT	9	II		<p>Explosive Limit and Limited Quantity Index 0</p> <p>Passenger Carrying Road or Rail Index 10</p> <p>Special provisions 65</p>
Mexico	UN3316	EQUIPO QUIMICO	9	II		<p>Special provisions 251, 340</p>

Section 14. Transport information

IMDG	UN3316	CHEMICAL KIT. Marine pollutant (Acetone)	9	II	 	<p>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p>Emergency schedules (EmS) F-A, _S-P_</p> <p>Special provisions 251, 340</p>
IATA	UN3316	Chemical kit	9	II		<p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p>Passenger and Cargo Aircraft Quantity limitation: 10 kg Packaging instructions: 960</p> <p>Cargo Aircraft Only Quantity limitation: 10 kg Packaging instructions: 960</p> <p>Limited Quantities - Passenger Aircraft Quantity limitation: 1 kg Packaging instructions: Y960</p> <p>Special provisions A44, A163</p>

PG* : Packing group

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) PAIR: Acetonitrile; Atrazine (ISO); Diuron (ISO); Terbutylazine
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: Acetonitrile
Clean Water Act (CWA) 311: Diuron (ISO); Formic acid

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

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

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2D-LC Solution, Part Number 5190-6895						
Acetonitrile	60 - 100	Yes.	No.	No.	Yes.	Yes.
Acetone	10 - 30	Yes.	No.	No.	Yes.	No.
Atrazine (ISO)	0.1 - 1	No.	No.	No.	Yes.	Yes.
desethylterbutylazine	0.1 - 1	No.	No.	No.	Yes.	No.
Formic Acid, Part Number G2453-85060						
Formic acid	60 - 100	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2D-LC Solution, Part Number 5190-6895 Acetonitrile	75-05-8	60 - 100
	Formic Acid, Part Number G2453-85060 Formic acid	64-18-6	60 - 100
Supplier notification	2D-LC Solution, Part Number 5190-6895 Acetonitrile	75-05-8	60 - 100
	Formic Acid, Part Number G2453-85060 Formic acid	64-18-6	60 - 100

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

State regulations

- Massachusetts** : The following components are listed: ACETONE; ACETONITRILE; FORMIC ACID
- New York** : The following components are listed: Acetone; 2-Propanone; Acetonitrile; Ethanenitrile; Formic acid; Methanoic acid
- New Jersey** : The following components are listed: ACETONE; 2-PROPANONE; ACETONITRILE; CYANOMETHANE; FORMIC ACID
- Pennsylvania** : The following components are listed: 2-PROPANONE; ACETONITRILE; FORMIC ACID
- California Prop. 65**

Section 15. Regulatory information

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
2D-LC Solution, Part Number 5190-6895				
Diuron (ISO)	Yes.	No.	No.	No.
Linuron (ISO)	No.	Yes.	No.	Yes.
nifedipine	No.	Yes.	No.	No.
nimodipine	No.	Yes.	No.	No.

Canada inventory : Not determined.

International regulations

International lists :

- Australia inventory (AICS):** At least one component is not listed.
- China inventory (IECSC):** Not determined.
- Japan inventory:** Not determined.
- Korea inventory:** Not determined.
- Malaysia Inventory (EHS Register):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.
- Taiwan inventory (CSNN):** Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Section 16. Other information

History

Date of issue : 08/26/2014.

Date of previous issue : No previous validation.

Version : 1

✔ Indicates information that has changed from previously issued version.

Notice to reader

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