

**SAFETY DATA SHEET****P1395A Blue Primer (50% dilution)**Version Number 1.1  
Revision Date 08/02/2023Page 1 of 23  
Print Date 08/03/2023**SAFETY DATA SHEET****P1395A Blue Primer (50% dilution)****Section 1. Identification**

**GHS product identifier** : P1395A Blue Primer (50% dilution)  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : FO20050131  
**Product type** : liquid

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

**Product use** : Industrial applications. Plastics.

**Supplier's details** : **AVIENT CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012  
  
1 (440) 930-1000 or 1 (844) 4AVIENT

**Emergency telephone number (with hours of operation)** : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 1B

**GHS label elements**

## SAFETY DATA SHEET

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 2 of 23  
Print Date 08/03/2023

**Hazard pictograms****Signal word****Hazard statements**

- : Danger
- : Highly flammable liquid and vapor.
- : Harmful if swallowed.
- : Causes skin irritation.
- : Causes serious eye irritation.
- : May cause cancer.

**Precautionary statements****Prevention****Response****Storage****Disposal****Supplemental label elements****Hazards not otherwise classified**

- : Not applicable.
- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- : IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- : Store locked up. Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- : None known.
- : None known.
- : Not available.

<b>Section 3. Composition/information on ingredients</b>
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**Substance/mixture****Chemical name****Other means of identification**

- : Mixture
- : Mixture
- : FO20050131

**CAS number/other identifiers**

## SAFETY DATA SHEET

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 3 of 23  
Print Date 08/03/2023

Ingredient name	%	CAS number
Methyl ethyl ketone	>= 25 - <= 50	78-93-3
Benzene, methyl-	>= 10 - <= 25	108-88-3
Methyl isobutyl ketone	>= 10 - <= 25	108-10-1
Cyclohexanone	>= 3 - <= 5	108-94-1
Methyl alcohol	>= 1 - < 3	67-56-1
Dimethylformamide	>= 1 - <= 3	68-12-2

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

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
- Skin contact** : 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. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has

**SAFETY DATA SHEET**

***P1395A Blue Primer (50% dilution)***

Version Number 1.1  
 Revision Date 08/02/2023

Page 4 of 23  
 Print Date 08/03/2023

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.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : Harmful if swallowed.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness
- Ingestion** : No specific data.

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

- Notes to physician** : 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** : No specific treatment.
- Protection of first-aiders** : 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)

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 5 of 23  
 Print Date 08/03/2023

**Section 5. Fire-fighting measures**

**Extinguishing media**

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides
- Special protective actions for fire-fighters** : 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** : 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**

**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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : 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".
- Environmental precautions** : 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).

## SAFETY DATA SHEET

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 6 of 23  
Print Date 08/03/2023

**Methods and materials for containment and cleaning up**

- Small spill** : 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.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

<h2>Section 7. Handling and storage</h2>
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**Precautions for safe handling**

- Protective measures** : 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. 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.
- Conditions for safe storage, including any incompatibilities** : 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

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 7 of 23  
 Print Date 08/03/2023

incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. 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.

**Section 8. Exposure controls/personal protection**

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Methyl ethyl ketone	<b>OSHA PEL 1989 (1989-03-01)</b> TWA 590 mg/m3 200 ppm STEL 885 mg/m3 300 ppm <b>OSHA PEL (1993-06-30)</b> TWA 590 mg/m3 200 ppm <b>NIOSH REL (1994-06-01)</b> TWA 590 mg/m3 200 ppm STEL 885 mg/m3 300 ppm <b>ACGIH TLV (1994-09-01)</b> TWA 590 mg/m3 200 ppm STEL 885 mg/m3 300 ppm
Benzene, methyl-	<b>OSHA PEL 1989 (1989-03-01)</b> TWA 375 mg/m3 100 ppm STEL 560 mg/m3 150 ppm <b>OSHA PEL Z2 (1993-06-30)</b> TWA 200 ppm CEIL 300 ppm AMP 500 ppm <b>NIOSH REL (1994-06-01)</b> TWA 375 mg/m3 100 ppm STEL 560 mg/m3 150 ppm <b>ACGIH TLV (2006-11-17) Ototoxicant</b> TWA 20 ppm
Methyl isobutyl ketone	<b>OSHA PEL 1989 (1989-03-01)</b> TWA 205 mg/m3 50 ppm STEL 300 mg/m3 75 ppm

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 8 of 23  
 Print Date 08/03/2023

	<p><b>OSHA PEL (1993-06-30)</b>                  TWA 410 mg/m3 100 ppm  <b>NIOSH REL (1994-06-01)</b>                  TWA 205 mg/m3 50 ppm                  STEL 300 mg/m3 75 ppm  <b>ACGIH TLV (2009-11-30)</b>                  TWA 20 ppm  <b>ACGIH TLV (1994-09-01)</b>                  STEL 75 ppm</p>
Cyclohexanone	<p><b>ACGIH TLV (2003-01-01) Absorbed through skin.</b>                  TWA 20 ppm                  STEL 50 ppm  <b>NIOSH REL (1994-06-01) Absorbed through skin.</b>                  TWA 100 mg/m3 25 ppm  <b>OSHA PEL 1989 (1989-03-01) Absorbed through skin.</b>                  TWA 100 mg/m3 25 ppm  <b>OSHA PEL (1993-06-30)</b>                  TWA 200 mg/m3 50 ppm</p>
Methyl alcohol	<p><b>OSHA PEL 1989 (1989-03-01) Absorbed through skin.</b>                  TWA 260 mg/m3 200 ppm                  STEL 325 mg/m3 250 ppm  <b>OSHA PEL (1993-06-30)</b>                  TWA 260 mg/m3 200 ppm  <b>NIOSH REL (1994-06-01) Absorbed through skin.</b>                  TWA 260 mg/m3 200 ppm                  STEL 325 mg/m3 250 ppm</p>
Dimethylformamide	<p><b>ACGIH TLV (2018-03-20) Absorbed through skin.</b>                  TWA 30 mg/m3 5 ppm  <b>NIOSH REL (1994-06-01) Absorbed through skin.</b>                  TWA 30 mg/m3 10 ppm  <b>OSHA PEL 1989 (1989-03-01) Absorbed through skin.</b>                  TWA 30 mg/m3 10 ppm  <b>OSHA PEL (1993-06-30) Absorbed through skin.</b>                  TWA 30 mg/m3 10 ppm</p>

**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



**SAFETY DATA SHEET****P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 9 of 23  
Print Date 08/03/2023

- or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** :
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

- Hygiene measures** :
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** :
- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

- Hand protection** :
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** :
- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product., When there is a risk of ignition from static electricity, wear anti-static protective clothing., For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** :
- Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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.

## SAFETY DATA SHEET

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 10 of 23  
Print Date 08/03/2023

## Section 9. Physical and chemical properties

### Appearance

Physical state	:	liquid [liquid]
Color	:	BLUE
Odor	:	Not available.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	25 °F (-4 °C)
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	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.
Incompatible materials	:	Reactive or incompatible with the following materials:

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 11 of 23  
Print Date 08/03/2023

**Hazardous decomposition products** : oxidizing materials  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological information**

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>2-Butanone</b>				
	LD50 Oral	Rat	2,737 mg/kg	-
	LD50 Dermal	Rabbit	6,480 mg/kg	-
<b>Benzene, methyl-</b>				
	LD50 Oral	Rat	636 mg/kg	-
	LC50 Inhalation Vapor	Rat	49 Mg/l	4 h
<b>2-Pentanone, 4-methyl-</b>				
	LD50 Oral	Rat	2,080 mg/kg	-
<b>Cyclohexanone</b>				
	LD50 Oral	Rat	1,800 mg/kg	-
	LC50 Inhalation Gas.	Rat	8,000 ppm	4 h
<b>Methanol</b>				
	LD50 Oral	Rat	5,600 mg/kg	-
	LC50 Inhalation Gas.	Rat	145,000 ppm	1 h
	LC50 Inhalation Gas.	Rat	64,000 ppm	4 h
	LD50 Dermal	Rabbit	15,800 mg/kg	-
<b>Formamide, N,N-dimethyl-</b>				
	LD50 Oral	Rat	2,000 mg/kg	-
	LC50 Inhalation Gas.	Rat	3,421 ppm	1 h
	LC50 Inhalation Gas.	Rat	1,948 ppm	4 h
	LD50 Dermal	Rabbit	4,720 mg/kg	-

**Conclusion/Summary** : Mixture. Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Butanone	Skin - Mild irritant	Rabbit	-	24 hrs	-

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 12 of 23  
 Print Date 08/03/2023

	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
Benzene, methyl-	Skin - Mild irritant	Pig	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-	0.008 hrs	-
2-Pentanone, 4-methyl-	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-
Cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Human	-	48 hrs	-
	Skin - Mild irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-		-
Methanol	Eyes - Moderate irritant	Rabbit	-		-
	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
Formamide, N,N-dimethyl-	Skin - Mild irritant	Human	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-		-

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Sensitization**

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

## SAFETY DATA SHEET

### ***P1395A Blue Primer (50% dilution)***

Version Number 1.1  
Revision Date 08/02/2023

Page 13 of 23  
Print Date 08/03/2023

#### Carcinogenicity

**Conclusion/Summary** : Mixture.Not fully tested.

#### Classification

Product/ingredient name	OSHA	IARC	NTP
Benzene, methyl-	-	3	-
2-Pentanone, 4-methyl-	-	2B	-
Cyclohexanone	-	3	-
Formamide, N,N-dimethyl-	-	2A	-

#### Reproductive toxicity

**Conclusion/Summary** : Mixture.Not fully tested.

#### Teratogenicity

**Conclusion/Summary** : Mixture.Not fully tested.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methanol	Category 1	-	-

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : Harmful if swallowed.

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

**Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness  
**Inhalation** : No specific data.

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 14 of 23  
 Print Date 08/03/2023

**Skin contact** : Adverse symptoms may include the following: irritation, redness  
**Ingestion** : No specific data.

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

**Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Mixture. Not fully tested.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : Not available.  
**Developmental effects** : Not available.  
**Fertility effects** : No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
P1395A Blue Primer (50% dilution)	1756.7 mg/kg	199653.1 mg/kg	62475 ppm	N/A	N/A
2-Butanone	2737 mg/kg	6480 mg/kg	N/A	N/A	N/A
Benzene, methyl-	636 mg/kg	N/A	N/A	49 Mg/l	N/A
2-Pentanone, 4-methyl-	2080 mg/kg	N/A	N/A	N/A	N/A
Cyclohexanone	1800 mg/kg	N/A	8000 ppm	N/A	N/A
Methanol	5600 mg/kg	15800 mg/kg	64000 ppm	N/A	N/A
Formamide, N,N-dimethyl-	2000 mg/kg	4720 mg/kg	1948 ppm	N/A	N/A

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 15 of 23  
 Print Date 08/03/2023

**Other information** : This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

**Section 12. Ecological information**

**Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>2-Butanone</b>			
	Acute LC50 3,220 Mg/l Fresh water	Fish - Pimephales promelas	96 h
	Acute EC50 5.091 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 > 500 Mg/l Marine water	Algae - Skeletonema costatum	96 h
<b>Benzene, methyl-</b>			
	Acute LC50 5.5 Mg/l Fresh water	Fish - Oncorhynchus kisutch	96 h
	Acute EC50 11.6 Mg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus	48 h
	Acute EC50 6 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 > 433 Mg/l Marine water	Algae - Skeletonema costatum	96 h
	Chronic NOEC 1 Mg/l Fresh water	Daphnia - Daphnia magna	21 d
<b>2-Pentanone, 4-methyl-</b>			
	Acute LC50 0.505 Mg/l Fresh water	Fish - Pimephales promelas	96 h
	Chronic NOEC 168 Mg/l Fresh water	Fish - Pimephales promelas	33 d
	Chronic NOEC 78 Mg/l Fresh water	Daphnia - Daphnia magna	21 d
<b>Cyclohexanone</b>			
	Acute LC50 0.527 Mg/l Fresh water	Fish - Pimephales promelas	96 h
	Acute EC50 32.9 Mg/l	Algae - Chlamydomonas reinhardtii	72 h
	Chronic EC10 3.56 Mg/l	Algae - Chlamydomonas reinhardtii	72 h
<b>Methanol</b>			
	Acute LC50 290 Mg/l Fresh	Fish - Danio rerio	96 h

**SAFETY DATA SHEET****P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 16 of 23  
Print Date 08/03/2023

	water		
	Acute EC50 24.5 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute LC50 2,500 Mg/l Marine water	Crustaceans - Crangon crangon	48 h
	Acute EC50 16.912 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 9.96 Mg/l Marine water	Algae - Ulva pertusa	96 h
Formamide, N,N-dimethyl-			
	Acute EC50 7,100 Mg/l Fresh water	Fish - Lepomis macrochirus	96 h
	Acute EC50 4.5 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute LC50 > 100 Mg/l Marine water	Crustaceans - Crangon crangon	48 h
	Chronic NOEC 100 Mg/l Fresh water	Fish - Oncorhynchus mykiss	30 d
	Chronic NOEC 1,500 Mg/l Fresh water	Daphnia - Daphnia magna	21 d

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-Butanone	0.29	-	low
Benzene, methyl-	2.73	90.00	low
2-Pentanone, 4-methyl-	1.9	-	low
Cyclohexanone	0.86	-	low
Methanol	-0.77	10.00	low
Formamide, N,N-dimethyl-	-1.01	0.79	low

**Mobility in soil**

**Soil/water partition coefficient (KOC)** : Not available.

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



**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 17 of 23  
 Print Date 08/03/2023

**Section 13. Disposal considerations**

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

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Listed

Ingredient	CAS #	Status	Reference number
Methyl ethyl ketone	78-93-3	Listed	
Benzene, methyl-	108-88-3	Listed	
Methyl isobutyl ketone	108-10-1	Listed	
Cyclohexanone	108-94-1	Listed	
Methyl alcohol	67-56-1	Listed	

**Section 14. Transport information**

U.S.DOT 49CFR  
 Ground/Air/Water  
 Proper Shipping Name: Coating solution  
 Technical Name:  
 Hazard Class / Division 3  
 UN Number UN1139

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 18 of 23  
 Print Date 08/03/2023

Packing Group	II
Label Required	3
International Air ICAO/IATA	Consult mode specific transport rules
International Water IMO/IMDG	Consult mode specific transport rules

**Section 15. Regulatory information**

- U.S. Federal regulations** :
- United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
  - United States - TSCA 4(a) - Final Test Rules:** Not listed
  - United States - TSCA 4(a) - ITC Priority list:** Not listed
  - United States - TSCA 4(a) - Proposed test rules:** Not listed
  - United States - TSCA 4(f) - Priority risk review:** Not listed
  - United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
  - United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
  - United States - TSCA 5(e) - Substances consent order:** Not listed
  - United States - TSCA 6 - Final risk management:** Not listed
  - United States - TSCA 6 - Proposed risk management:** Not listed
  - United States - TSCA 8(a) - Chemical risk rules:** Not listed
  - United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed
  - United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined
  - United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Listed Naphthalene
  - United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed
  - United States - TSCA 8(d) - Health and safety studies:** Not listed
  - United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Listed Benzene, methyl-1-Cyanoguanidine, Phenol, Ethyl benzene, Benzene, Naphthalene
  - United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 19 of 23  
 Print Date 08/03/2023

**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Not listed  
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed  
**United States - Department of commerce - Precursor chemical:** Not listed

- Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Listed

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

Chemical Name	CAS-No.	RQ for component
Dimethylformamide	68-12-2	100 lb(s) 45.4 kg
Benzene, methyl-	108-88-3	1,000 lb(s) 454 kg 454 kg 1,000 lb(s)

**SARA 311/312**

- Classification** : FLAMMABLE LIQUIDS - Category 2  
 ACUTE TOXICITY - oral - Category 4  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 CARCINOGENICITY - Category 1B

**Composition/information on ingredients**

Name	%	Classification
2-Butanone	>= 25 - <= 50	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Benzene, methyl-	>= 10 - <= 25	FLAMMABLE LIQUIDS - Category 2

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 20 of 23  
Print Date 08/03/2023

		ACUTE TOXICITY - oral - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
2-Pentanone, 4-methyl-	>= 10 - <= 25	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2
Cyclohexanone	>= 3 - <= 5	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - oral - Category 4 ACUTE TOXICITY - inhalation - Category 4 EYE IRRITATION - Category 2A
Methanol	>= 1 - < 3	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Formamide, N,N-dimethyl-	>= 1 - <= 3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - oral - Category 4 ACUTE TOXICITY - inhalation - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B

**SARA 313**

**Form R - Reporting requirements**

Product name	CAS number	%
Benzene, methyl-	108-88-3	>= 10 - < 30
Methyl isobutyl ketone	108-10-1	>= 10 - < 30
Methyl alcohol	67-56-1	>= 1 - < 5
Dimethylformamide	68-12-2	>= 1 - < 5

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**

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 21 of 23  
 Print Date 08/03/2023

- Massachusetts** : The following components are listed:  
 Methyl ethyl ketone  
 Benzene, methyl-  
 Methyl isobutyl ketone  
 Cyclohexanone  
 Methyl alcohol  
 Dimethylformamide
- New York** : The following components are listed:  
 Methyl ethyl ketone  
 Benzene, methyl-  
 Methyl isobutyl ketone  
 Cyclohexanone  
 Methyl alcohol  
 Dimethylformamide
- New Jersey** : The following components are listed:  
 Methyl ethyl ketone  
 Benzene, methyl-  
 Methyl isobutyl ketone  
 Cyclohexanone  
 Methyl alcohol  
 Dimethylformamide
- Pennsylvania** : The following components are listed:  
 Methyl ethyl ketone  
  
 Benzene, methyl-  
  
 Methyl isobutyl ketone  
  
 Cyclohexanone  
  
 Methyl alcohol  
  
 Dimethylformamide

**California Prop. 65**

**⚠ WARNING:** This product can expose you to chemicals including Methyl isobutyl ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Dimethylformamide, which is known to the State of California to cause cancer, and Benzene, methyl-, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Benzene, methyl-	-	Yes.
Methyl isobutyl ketone	-	-
Methyl alcohol	-	Yes.

**SAFETY DATA SHEET**

**P1395A Blue Primer (50% dilution)**

Version Number 1.1  
 Revision Date 08/02/2023

Page 22 of 23  
 Print Date 08/03/2023

Dimethylformamide	-	-
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**United States inventory (TSCA 8b)** : All components are active or exempted.

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

**International regulations**

**Inventory list**

- Australia** : Not determined.
- Canada** : All components are listed or exempted.
- China** : Not determined.
- Eurasian Economic Union** : **Russian Federation inventory:** Not determined.
- Japan** : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : Not determined.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are active or exempted.
- Viet Nam** : Not determined.

**Section 16. Other information**

**Hazardous Material Information System (U.S.A.)**

<b>Health</b>	*	2
<b>Flammability</b>		3
<b>Physical hazards</b>		0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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- Date of printing** : 08/03/2023
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**SAFETY DATA SHEET****P1395A Blue Primer (50% dilution)**

Version Number 1.1  
Revision Date 08/02/2023

Page 23 of 23  
Print Date 08/03/2023

**Key to abbreviations**

- : ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

**References**

- : Not available.

**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.**