

SAFETY DATA SHEET

P1395A Blue Primer (65% dilution)

Version Number 1.2
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P1395A Blue Primer (65% dilution)**Section 1. Identification**

GHS product identifier : P1395A Blue Primer (65% dilution)
Chemical name : Mixture
CAS number : Mixture
Other means of identification : FO20051000
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

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 1
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2

GHS label elements

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Hazard pictograms : 

Signal word : Danger
Hazard statements : Extremely flammable liquid and vapor.
 Harmful if swallowed or if inhaled.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause cancer.
 May cause damage to organs.

Precautionary statements

Prevention : 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 only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response : IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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 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.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Hazards identified when used : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : P1395A Blue Primer (65% dilution)
Other means of identification : P1395A Blue Primer (65% dilution)

Ingredient name	Synonyms	%	Identifiers
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2-Butanone	butanone	>= 30 - <= 60	CAS: 78-93-3
Benzene, methyl-	toluene	>= 10 - <= 30	CAS: 108-88-3
2-Pentanone, 4-methyl-	4-methylpentan-2-one	>= 10 - <= 30	CAS: 108-10-1
Cyclohexanone	cyclohexanone	>= 3 - <= 5	CAS: 108-94-1
Methanol	methanol	>= 3 - <= 5	CAS: 67-56-1
Formamide, N,N-dimethyl-	N,N-dimethylformamide	>= 1 - <= 5	CAS: 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 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. If necessary, call a poison center or physician.
- Inhalation** : 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.
- 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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small

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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** : Harmful if inhaled. May cause damage to organs following a single exposure if inhaled.
- Skin contact** : May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.
- Ingestion** : Harmful if swallowed. May cause damage to organs following a single exposure 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)

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Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Extremely 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).

Methods and materials for containment and cleaning up

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- Small spill** :
- Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

Section 7. Handling and storage

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 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.
- 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 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

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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
2-Butanone	<p>CAL OSHA PEL (2018-05-16). [methyl ethyl ketone] TWA 8 hours: 590 mg/m3 200 ppm STEL 15 minutes: 885 mg/m3 300 ppm ACGIH TLV (2023-07-01). [methyl ethyl ketone] Absorbed through skin. STEL 15 minutes: 150 ppm TWA 8 hours: 75 ppm NIOSH REL (2010-09-01). [2-BUTANONE] STEL 15 minutes: 885 mg/m3 300 ppm TWA 10 hours: 590 mg/m3 200 ppm OSHA PEL 1989 (1989-03-01). [2-Butanone (Methyl ethyl ketone)] STEL 15 minutes: 885 mg/m3 300 ppm TWA 8 hours: 590 mg/m3 200 ppm OSHA PEL (1993-06-30). [2-Butanone] TWA 8 hours: 590 mg/m3 200 ppm</p>
Benzene, methyl-	<p>CAL OSHA PEL (2018-05-16). [toluene] Absorbed through skin. TWA 8 hours: 37 mg/m3 10 ppm CEIL: 500 ppm STEL 15 minutes: 560 mg/m3 150 ppm ACGIH TLV (2021-01-07). [Toluene] A4. Ototoxicant. TWA 8 hours: 20 ppm NIOSH REL (2010-09-01). [TOLUENE] STEL 15 minutes: 560 mg/m3 150 ppm TWA 10 hours: 375 mg/m3 100 ppm OSHA PEL 1989 (1989-03-01). [Toluene] STEL 15 minutes: 560 mg/m3 150 ppm TWA 8 hours: 375 mg/m3 100 ppm OSHA PEL Z2 (1993-06-30). [Toluene] PEAK 10 minutes: 500 ppm CEIL: 300 ppm</p>

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	TWA 8 hours: 200 ppm
2-Pentanone, 4-methyl-	<p>CAL OSHA PEL (2018-05-16). [methyl isobutyl ketone] TWA 8 hours: 205 mg/m3 50 ppm STEL 15 minutes: 300 mg/m3 75 ppm ACGIH TLV (2009-11-30). [Methyl isobutyl ketone] A3. STEL 15 minutes: 75 ppm TWA 8 hours: 20 ppm NIOSH REL (2010-09-01). [Hexone] STEL 15 minutes: 300 mg/m3 75 ppm TWA 10 hours: 205 mg/m3 50 ppm OSHA PEL 1989 (1989-03-01). [Hexone (Methyl isobutyl ketone)] STEL 15 minutes: 300 mg/m3 75 ppm TWA 8 hours: 205 mg/m3 50 ppm OSHA PEL (1993-06-30). [Hexone] TWA 8 hours: 410 mg/m3 100 ppm</p>
Cyclohexanone	<p>CAL OSHA PEL (2018-05-16). [cyclohexanone] Absorbed through skin. TWA 8 hours: 100 mg/m3 25 ppm ACGIH TLV (2003-01-01). [Cyclohexanone] A3. Absorbed through skin. STEL 15 minutes: 50 ppm TWA 8 hours: 20 ppm NIOSH REL (2010-09-01). [CYCLOHEXANONE] Absorbed through skin. TWA 10 hours: 100 mg/m3 25 ppm OSHA PEL 1989 (1989-03-01). [Cyclohexanone] Absorbed through skin. TWA 8 hours: 100 mg/m3 25 ppm OSHA PEL (1993-06-30). [Cyclohexanone] TWA 8 hours: 200 mg/m3 50 ppm</p>
Methanol	<p>CAL OSHA PEL (2018-05-16). [methyl alcohol] Absorbed through skin. TWA 8 hours: 260 mg/m3 200 ppm CEIL: 1,000 ppm STEL 15 minutes: 325 mg/m3 250 ppm ACGIH TLV (2024-01-18). [methanol] Absorbed through skin. STEL 15 minutes: 328 mg/m3 250 ppm TWA 8 hours: 262 mg/m3 200 ppm NIOSH REL (2010-09-01). [METHYL ALCOHOL] Absorbed through skin. STEL 15 minutes: 325 mg/m3 250 ppm</p>

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	<p>TWA 10 hours: 260 mg/m³ 200 ppm OSHA PEL 1989 (1989-03-01). [Methyl alcohol] Absorbed through skin. STEL 15 minutes: 325 mg/m³ 250 ppm TWA 8 hours: 260 mg/m³ 200 ppm OSHA PEL (1993-06-30). [Methyl alcohol] TWA 8 hours: 260 mg/m³ 200 ppm</p>
Formamide, N,N-dimethyl-	<p>CAL OSHA PEL (2018-05-16). [dimethylformamide] Absorbed through skin. TWA 8 hours: 30 mg/m³ 10 ppm ACGIH TLV (2018-03-20). [Dimethylformamide] A3. Absorbed through skin. TWA 8 hours: 5 ppm NIOSH REL (2010-09-01). [DIMETHYLFORMAMIDE] Absorbed through skin. TWA 10 hours: 30 mg/m³ 10 ppm OSHA PEL 1989 (1989-03-01). [Dimethylformamide] Absorbed through skin. TWA 8 hours: 30 mg/m³ 10 ppm OSHA PEL (1993-06-30). [Dimethylformamide] Absorbed through skin. TWA 8 hours: 30 mg/m³ 10 ppm</p>

Biological exposure indices

Ingredient name	Exposure indices
2-Butanone	<p>ACGIH BEI (2013-06-14) [methyl ethyl ketone] BEI - 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift</p>
Benzene, methyl-	<p>ACGIH BEI (2009-11-30) [toluene] BEI - 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek ACGIH BEI (2012-03-05) [toluene] BEI - 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift ACGIH BEI (2009-11-30) [toluene] BEI - 0.03 mg/l, toluene [in urine]. Sampling time: end of shift</p>
2-Pentanone, 4-methyl-	<p>ACGIH BEI (2009-11-30) [methyl isobutyl ketone] BEI - 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift</p>
Cyclohexanone	<p>ACGIH BEI (2004-01-01) [cyclohexanone]</p>

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	<p>BEI - 8 mg/l [Semi-quantitative: The determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous. These determinants should be used as a screening test if a quantitative test is not practical or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], cyclohexanol [in urine]. Sampling time: end of shift</p> <p>ACGIH BEI (2004-01-01) [cyclohexanone] BEI - 80 mg/l [Semi-quantitative: The determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous. These determinants should be used as a screening test if a quantitative test is not practical or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], 1,2-cyclohexanediol [in urine]. Sampling time: end of shift at end of workweek</p>
Methanol	<p>ACGIH BEI (2012-03-05) [methanol] BEI - 15 mg/l, methanol [in urine]. Sampling time: end of shift</p>
Formamide, N,N-dimethyl-	<p>ACGIH BEI (2017-03-01) [dimethylformamide] [DMF] BEI - 30 mg/l, N-acetyl-S-(N-methylcarbamoyl) cysteine [in urine]. Sampling time: end of shift at end of workweek</p> <p>ACGIH BEI (2017-03-01) [dimethylformamide] [DMF] BEI - 30 mg/l, total N-methylformamide [in urine]. Sampling time: end of shift</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 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.

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- 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.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : liquid [liquid]
- Color** : NO PIGMENT
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.

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Melting point/freezing point	:	Not available.
Boiling point or initial boiling point and boiling range	:	Not available.
Flash point	:	25 °F (-4 °C)
Evaporation rate	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	:	Lower: Not available. Upper: Not available.
Vapor pressure	:	Not available.
Relative vapor density	:	Not available.
Relative density	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic : Not available. Kinematic : Not available.

Particle characteristics

Median particle size	:	Not applicable.
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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: oxidizing materials

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Hazardous decomposition products : 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
2-Butanone	Rat - Oral - LD50 2,737 mg/kg Rabbit - Dermal - LD50 6,480 mg/kg
Benzene, methyl-	Rat - Oral - LD50 636 mg/kg Rat - Inhalation - LC50 Vapor 49 Mg/l [4 h]
2-Pentanone, 4-methyl-	Rat - Oral - LD50 2,080 mg/kg
Cyclohexanone	Rat - Oral - LD50 1,800 mg/kg Rat - Inhalation - LC50 Gas. 8000 ppm [4 h]
Methanol	Rat - Oral - LD50 5,600 mg/kg Rabbit - Dermal - LD50 15,800 mg/kg Rat - Inhalation - LC50 Gas. 145000 ppm [1 h] Rat - Inhalation - LC50 Gas. 64000 ppm [4 h]
Formamide, N,N-dimethyl-	Rat - Oral - LD50 2,000 mg/kg Rabbit - Dermal - LD50 4,720 mg/kg

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	<p>Rat - Inhalation - LC50 Gas. 3421 ppm [1 h]</p> <p>Rat - Inhalation - LC50 Gas. 1948 ppm [4 h]</p>
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Conclusion/Summary : Mixture.Not fully tested.

Skin corrosion/irritation

Product/ingredient name	Result
2-Butanone	<p>Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hrs</p> <p>Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hrs</p> <p>Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hrs</p>
Benzene, methyl-	<p>Pig - Skin - Mild irritant Duration of treatment/exposure: 24 hrs</p> <p>Rabbit - Skin - Mild irritant Rabbit - Skin - Moderate irritant Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hrs</p>
2-Pentanone, 4-methyl-	<p>Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hrs</p>
Cyclohexanone	<p>Human - Skin - Mild irritant Duration of treatment/exposure: 48 hrs</p> <p>Rabbit - Skin - Mild irritant</p>
Methanol	<p>Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hrs</p>
Formamide, N,N-dimethyl-	<p>Human - Skin - Mild irritant Duration of treatment/exposure: 24 hrs</p>

Conclusion/Summary : Mixture.Not fully tested.

Serious eye damage/eye irritation

Product/ingredient name	Result
Benzene, methyl-	<p>Rabbit - Eyes - Severe irritant Rabbit - Eyes - Mild irritant</p>

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	Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hrs Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 0.008 hrs
2-Pentanone, 4-methyl-	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hrs Rabbit - Eyes - Severe irritant
Cyclohexanone	Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hrs Rabbit - Eyes - Severe irritant
Methanol	Rabbit - Eyes - Moderate irritant Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hrs Rabbit - Eyes - Severe irritant
Formamide, N,N-dimethyl-	Rabbit - Eyes - Severe irritant Rabbit - Eyes - Severe irritant Rabbit - Eyes - Severe irritant

Conclusion/Summary : Mixture.Not fully tested.

Respiratory corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory or skin sensitization

Skin

Conclusion/Summary : Mixture.Not fully tested.

Respiratory

Conclusion/Summary : Mixture.Not fully tested.

Germ cell mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

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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.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Methanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - 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** : Harmful if inhaled. May cause damage to organs following a single exposure if inhaled.
- Skin contact** : May cause damage to organs following a single exposure in contact with skin. Causes skin irritation.
- Ingestion** : Harmful if swallowed. May cause damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

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- 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.

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

Not available.

- 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.
- Reproductive toxicity** : 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 (65% dilution)	1640.1 mg/kg	76763.6 mg/kg	14694.6 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

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Formamide, N,N-dimethyl-	2000 mg/kg	4720 mg/kg	1948 ppm	N/A	N/A
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Section 12. Ecological information

Toxicity

Product/ingredient name	Result
2-Butanone	<p>Acute LC50 Fresh water Fish - <i>Pimephales promelas</i> 3,220 Mg/l [96 h]</p> <p>Acute EC50 Fresh water Daphnia - <i>Daphnia magna</i> 5.091 Mg/l [48 h]</p> <p>Acute EC50 Marine water Algae - <i>Skeletonema costatum</i> > 500 Mg/l [96 h]</p>
Benzene, methyl-	<p>Acute LC50 Fresh water Fish - <i>Oncorhynchus kisutch</i> 5.5 Mg/l [96 h]</p> <p>Acute EC50 Fresh water Crustaceans - <i>Gammarus pseudolimnaeus</i> 11.6 Mg/l [48 h]</p> <p>Acute EC50 Fresh water Daphnia - <i>Daphnia magna</i> 6 Mg/l [48 h]</p> <p>Acute EC50 Marine water Algae - <i>Skeletonema costatum</i> > 433 Mg/l [96 h]</p> <p>Chronic NOEC Fresh water Daphnia - <i>Daphnia magna</i> 1 Mg/l [21 d]</p>
2-Pentanone, 4-methyl-	<p>Acute LC50 Fresh water Fish - <i>Pimephales promelas</i> 0.505 Mg/l [96 h]</p> <p>Chronic NOEC Fresh water Fish - <i>Pimephales promelas</i> 168 Mg/l [33 d]</p> <p>Chronic NOEC Fresh water</p>

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	Daphnia - <i>Daphnia magna</i> 78 Mg/l [21 d]
Cyclohexanone	Acute LC50 Fresh water Fish - <i>Pimephales promelas</i> 0.527 Mg/l [96 h] Acute EC50 Algae - <i>Chlamydomonas reinhardtii</i> 32.9 Mg/l [72 h] Chronic EC10 Algae - <i>Chlamydomonas reinhardtii</i> 3.56 Mg/l [72 h]
Methanol	Acute LC50 Fresh water Fish - <i>Danio rerio</i> 290 Mg/l [96 h] Acute EC50 Fresh water Daphnia - <i>Daphnia magna</i> 24.5 Mg/l [48 h] Acute LC50 Marine water Crustaceans - <i>Crangon crangon</i> 2,500 Mg/l [48 h] Acute EC50 Marine water Algae - <i>Ulva pertusa</i> 16.912 Mg/l [96 h] Chronic NOEC Marine water Algae - <i>Ulva pertusa</i> 9.96 Mg/l [96 h]
Formamide, N,N-dimethyl-	Acute EC50 Fresh water Fish - <i>Lepomis macrochirus</i> 7,100 Mg/l [96 h] Acute EC50 Fresh water Daphnia - <i>Daphnia magna</i> 4.5 Mg/l [48 h] Acute LC50 Marine water Crustaceans - <i>Crangon crangon</i> > 100 Mg/l [48 h] Chronic NOEC Fresh water Fish - <i>Oncorhynchus mykiss</i> 100 Mg/l [30 d] Chronic NOEC Fresh water Daphnia - <i>Daphnia magna</i> 1,500 Mg/l [21 d]

Conclusion/Summary : Not available.

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Persistence and degradability

Not available.

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 : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations
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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.

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Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water : UN1139, Coating Solution, 3, PGII
 IATA : UN1139, Coating Solution, 3, PGII
 IMDG : UN1139, COATING SOLUTION, 3, PGII

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 TSCA 8(a) - Preliminary assessment report (PAIR): Naphthalene;

TSCA 12(b) - Chemical export notification

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

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302/304
PHENOL	> 0 - < 1	Yes.	SARA 302 TPQ: 500 lb(s) SARA 302 TPQ Solid upper limit: 10,000 lb(s) SARA 304 RQ: 1,000 lb(s)
FORMALDEHYDE	> 0 - < 0.1	Yes.	SARA 304 RQ: 100 lb(s) SARA 302 TPQ: 500 lb(s)

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SARA 304 RQ : 888,888.9 lbs

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 1
 ACUTE TOXICITY - oral - Category 4
 ACUTE TOXICITY - inhalation - Category 4
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
2-Butanone	>= 30 - <= 60	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Benzene, methyl-	>= 10 - <= 30	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY - oral - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
2-Pentanone, 4-methyl-	>= 10 - <= 30	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	>= 3 - <= 5	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 - <= 5	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - oral - Category 4

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		ACUTE TOXICITY - inhalation - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B
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SARA 313

Form R - Reporting requirements

Product name	CAS number	%
Benzene, methyl-	108-88-3	>= 10 - <= 30
2-Pentanone, 4-methyl-	108-10-1	>= 10 - <= 30
Methanol	67-56-1	>= 3 - <= 5
Formamide, N,N-dimethyl-	68-12-2	>= 1 - <= 5

Supplier notification

Product name	CAS number	%
Benzene, methyl-	108-88-3	>= 10 - <= 30
2-Pentanone, 4-methyl-	108-10-1	>= 10 - <= 30
Methanol	67-56-1	>= 3 - <= 5
Formamide, N,N-dimethyl-	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

- Massachusetts** :
- The following components are listed:
 - 2-Butanone
 - Benzene, methyl-
 - 2-Pentanone, 4-methyl-
 - Cyclohexanone
 - Methanol
 - Formamide, N,N-dimethyl-

- New York** :
- The following components are listed:
 - Methyl ethyl ketone
 - Toluene
 - Methyl isobutyl ketone

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Cyclohexanone
 Methanol
 Dimethyl formamide

New Jersey : The following components are listed:
 METHYL ETHYL KETONE
 TOLUENE
 METHYL ISOBUTYL KETONE
 CYCLOHEXANONE
 METHYL ALCOHOL
 DIMETHYLFORMAMIDE
 PHENOL

Pennsylvania : The following components are listed:
 2-BUTANONE
 BENZENE, METHYL-
 2-PENTANONE, 4-METHYL-
 CYCLOHEXANONE
 METHANOL
 FORMAMIDE, N,N-DIMETHYL-

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including, 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, which is known to the State of California to cause cancer, and Benzene, methyl-, Methyl alcohol, 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.

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

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Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

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None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

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.)

Health	*	3
Flammability		3
Physical hazards		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.

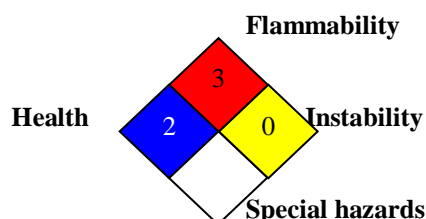
National Fire Protection Association (U.S.A.)

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Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 1	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2	Calculation method

History

- Date of printing** : 01/07/2026
- Date of issue/Date of revision** : 01/06/2026
- Date of previous issue** : 04/01/2025
- Version** : 1.2
- Prepared by** : EHS_BATCH
- Key to abbreviations** :
 - ATE = Acute Toxicity Estimate
 - BCF = Bioconcentration Factor
 - DOT = Department of Transportation
 - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 - IATA = International Air Transport Association
 - IBC = Intermediate Bulk Container
 - IMDG = International Maritime Dangerous Goods
 - IMO = International Maritime Organization
 - 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)
 - N/A = Not available
 - SGG = Segregation Group
 - TDG = Transportation of Dangerous Goods
 - UN = United Nations
- References** : Not available.

Notice to reader



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