

SAFETY DATA SHEET**P1395ACL CLEAR**

Version Number 1.12
Revision Date 09/26/2023

Page 1 of 24
Print Date 09/28/2023

SAFETY DATA SHEET**P1395ACL CLEAR****Section 1. Identification**

GHS product identifier : P1395ACL CLEAR
Chemical name : Mixture
CAS number : Mixture
Other means of identification : FO00012896
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
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2


GHS label elements

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 2 of 24
 Print Date 09/28/2023

- Hazard pictograms** : 
- Signal word** : Danger
- Hazard statements** :
 : Highly flammable liquid and vapor.
 : Causes skin irritation.
 : Causes serious eye irritation.
 : May cause cancer.
 : May cause damage to organs.

Precautionary statements

- Prevention** :
 : 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 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 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.
- 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.
- Supplemental label elements** :
 : None known.
- Hazards not otherwise classified** :
 : None known.
 : Not available.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Chemical name** : Mixture
- Other means of identification** : FO00012896

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
Revision Date 09/26/2023

Page 3 of 24
Print Date 09/28/2023

CAS number/other identifiers

Ingredient name	%	CAS number
Methyl ethyl ketone	>= 25 - <= 36	78-93-3
Benzene, methyl-	>= 10 - <= 14	108-88-3
Methyl isobutyl ketone	>= 10 - <= 14	108-10-1
Methyl alcohol	>= 5 - < 10	67-56-1
Cyclohexanone	>= 5 - <= 6.6	108-94-1
Dimethylformamide	>= 3 - <= 5	68-12-2
Acetone	>= 1 - <= 3	67-64-1

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

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

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

Section 4. First aid measures

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 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

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 4 of 24
 Print Date 09/28/2023

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 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 : 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 : 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.

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
Revision Date 09/26/2023

Page 5 of 24
Print Date 09/28/2023

- 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)

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** : 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

SAFETY DATA SHEET**P1395ACL CLEAR**

Version Number 1.12
Revision Date 09/26/2023

Page 6 of 24
Print Date 09/28/2023

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

- 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.

Section 7. Handling and storage
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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 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** :
- Eating, drinking and smoking should be prohibited in areas where this

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 7 of 24
 Print Date 09/28/2023

hygiene

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 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	<p>OSHA PEL 1989 (1989-03-01) TWA 590 mg/m3 200 ppm STEL 885 mg/m3 300 ppm OSHA PEL (1993-06-30) TWA 590 mg/m3 200 ppm NIOSH REL (1994-06-01) TWA 590 mg/m3 200 ppm STEL 885 mg/m3 300 ppm ACGIH TLV (1994-09-01) TWA 590 mg/m3 200 ppm STEL 885 mg/m3 300 ppm</p>
Benzene, methyl-	<p>OSHA PEL 1989 (1989-03-01) TWA 375 mg/m3 100 ppm STEL 560 mg/m3 150 ppm OSHA PEL Z2 (1993-06-30) TWA 200 ppm CEIL 300 ppm AMP 500 ppm NIOSH REL (1994-06-01) TWA 375 mg/m3 100 ppm</p>

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 8 of 24
 Print Date 09/28/2023

	<p>STEL 560 mg/m3 150 ppm ACGIH TLV (2006-11-17) Ototoxicant TWA 20 ppm</p>
Methyl isobutyl ketone	<p>OSHA PEL 1989 (1989-03-01) TWA 205 mg/m3 50 ppm STEL 300 mg/m3 75 ppm OSHA PEL (1993-06-30) TWA 410 mg/m3 100 ppm NIOSH REL (1994-06-01) TWA 205 mg/m3 50 ppm STEL 300 mg/m3 75 ppm ACGIH TLV (2009-11-30) TWA 20 ppm ACGIH TLV (1994-09-01) STEL 75 ppm</p>
Cyclohexanone	<p>ACGIH TLV (2003-01-01) Absorbed through skin. TWA 20 ppm STEL 50 ppm NIOSH REL (1994-06-01) Absorbed through skin. TWA 100 mg/m3 25 ppm OSHA PEL 1989 (1989-03-01) Absorbed through skin. TWA 100 mg/m3 25 ppm OSHA PEL (1993-06-30) TWA 200 mg/m3 50 ppm</p>
Methyl alcohol	<p>OSHA PEL 1989 (1989-03-01) Absorbed through skin. TWA 260 mg/m3 200 ppm STEL 325 mg/m3 250 ppm OSHA PEL (1993-06-30) TWA 260 mg/m3 200 ppm NIOSH REL (1994-06-01) Absorbed through skin. TWA 260 mg/m3 200 ppm STEL 325 mg/m3 250 ppm</p>
Dimethylformamide	<p>ACGIH TLV (2018-03-20) Absorbed through skin. TWA 30 mg/m3 5 ppm NIOSH REL (1994-06-01) Absorbed through skin. TWA 30 mg/m3 10 ppm OSHA PEL 1989 (1989-03-01) Absorbed through skin. TWA 30 mg/m3 10 ppm OSHA PEL (1993-06-30) Absorbed through skin. TWA 30 mg/m3 10 ppm</p>

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 9 of 24
 Print Date 09/28/2023

Acetone	<p>OSHA PEL 1989 (1989-03-01) TWA 1,800 mg/m3 750 ppm</p> <p>OSHA PEL 1989 (1989-03-01) STEL 2,400 mg/m3 1,000 ppm</p> <p>OSHA PEL (1993-06-30) TWA 2,400 mg/m3 1,000 ppm</p> <p>NIOSH REL (1994-06-01) TWA 590 mg/m3 250 ppm</p> <p>ACGIH TLV (2015-03-16) TWA 250 ppm STEL 500 ppm</p>
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Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

Individual protection measures

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

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

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 10 of 24
 Print Date 09/28/2023

- 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

Appearance

- Physical state** : liquid [liquid]
- Color** : NOT APPLICABLE
- 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** : **Lower:** Not available.
Upper: 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-** : Not applicable.

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 11 of 24
 Print Date 09/28/2023

octanol/water
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
SADT : Not available.
Viscosity : **Dynamic:** Not available.
Kinematic: 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:
 oxidizing materials

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	Species	Dose	Exposure
2-Butanone				
	LD50 Oral	Rat	2,737 mg/kg	-
	LD50 Dermal	Rabbit	6,480 mg/kg	-
Benzene, methyl-				
	LD50 Oral	Rat	636 mg/kg	-
	LC50 Inhalation Vapor	Rat	49 Mg/l	4 h
2-Pentanone, 4-methyl-				
	LD50 Oral	Rat	2,080 mg/kg	-
Cyclohexanone				
	LD50 Oral	Rat	1,800 mg/kg	-
	LC50 Inhalation Gas.	Rat	8,000 ppm	4 h
Methanol				
	LD50 Oral	Rat	5,600 mg/kg	-

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 12 of 24
 Print Date 09/28/2023

	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	-
Formamide, N,N-dimethyl-				
	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	-
2-Propanone				
	LD50 Oral	Rat	5,800 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	-
	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	-
2-Pentanone, 4-methyl-	Eyes - Mild irritant	Rabbit	-	0.008 hrs	-
	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	Rabbit	-	24 hrs	-

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 13 of 24
 Print Date 09/28/2023

	irritant				
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
Formamide, N,N-dimethyl-	Skin - Mild irritant	Human	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-		-
2-Propanone	Eyes - Severe irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-
	Eyes - Mild irritant	Human	-		-

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.

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.

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 14 of 24
 Print Date 09/28/2023

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** : 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** : May cause damage to organs following a single exposure 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.
- 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.

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 15 of 24
 Print Date 09/28/2023

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** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards. 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)
P1395ACL CLEAR	2157.7 mg/kg	100140.8 mg/kg	31335.8 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
2-Propanone	5800 mg/kg	N/A	N/A	N/A	N/A

- 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

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12

Page 16 of 24

Revision Date 09/26/2023

Print Date 09/28/2023

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Butanone			
	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
Benzene, methyl-			
	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
2-Pentanone, 4-methyl-			
	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
Cyclohexanone			
	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
Methanol			
	Acute LC50 290 Mg/l Fresh water	Fish - Danio rerio	96 h
	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-			

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 17 of 24
 Print Date 09/28/2023

	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
2-Propanone			
	Acute LC50 5,600 Mg/l Fresh water	Fish - Poecilia reticulata	96 h
	Acute LC50 4,425.89 Mg/l Marine water	Crustaceans - Acartia tonsa	48 h
	Acute LC50 7.46 Mg/l Fresh water	Daphnia - Daphnia cucullata	48 h
	Acute EC50 20.565 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 4.95 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 0.005 Mg/l Marine water	Fish - Gasterosteus aculeatus	42 d
	Chronic NOEC 16 Mg/l Fresh water	Crustaceans - Daphniidae	21 d
	Chronic NOEC 100 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
2-Propanone	-0.23	-	low

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 18 of 24
 Print Date 09/28/2023

Mobility in soil

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

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

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	
Acetone	67-64-1	Listed	

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 19 of 24
 Print Date 09/28/2023

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
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):** Not listed
- 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-**

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 20 of 24
 Print Date 09/28/2023

**1-Cyanoguanidine
 Phenol**

**United States - EPA Clean water act (CWA) section 311 -
 Hazardous substances:** Listed

**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)** : Not 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
 - SKIN IRRITATION - Category 2
 - EYE IRRITATION - Category 2A
 - CARCINOGENICITY - Category 1B
 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2

Composition/information on ingredients

SAFETY DATA SHEET**P1395ACL CLEAR**

Version Number 1.12
Revision Date 09/26/2023

Page 21 of 24
Print Date 09/28/2023

Name	%	Classification
2-Butanone	>= 25 - <= 36	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Benzene, methyl-	>= 10 - <= 14	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY - oral - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
2-Pentanone, 4-methyl-	>= 10 - <= 14	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2
Cyclohexanone	>= 5 - <= 6.6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - oral - Category 4 ACUTE TOXICITY - inhalation - Category 4 EYE IRRITATION - Category 2A
Methanol	>= 5 - < 10	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Formamide, N,N-dimethyl-	>= 3 - <= 5	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - oral - Category 4 ACUTE TOXICITY - inhalation - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B
2-Propanone	>= 1 - <= 3	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A

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	>= 3 - < 7

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 22 of 24
 Print Date 09/28/2023

Dimethylformamide	68-12-2	>= 1 - < 5
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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:
 Methyl ethyl ketone
 Benzene, methyl-
 Methyl isobutyl ketone
 Cyclohexanone
 Methyl alcohol
 Dimethylformamide
 Acetone

New York

- : The following components are listed:
 Methyl ethyl ketone
 Benzene, methyl-
 Methyl isobutyl ketone
 Cyclohexanone
 Methyl alcohol
 Dimethylformamide
 Acetone

New Jersey

- : The following components are listed:
 Methyl ethyl ketone
 Benzene, methyl-
 Methyl isobutyl ketone
 Cyclohexanone
 Methyl alcohol
 Dimethylformamide
 Acetone
 Phenol

Pennsylvania

- : The following components are listed:
 Methyl ethyl ketone

 Benzene, methyl-

 Methyl isobutyl ketone

 Cyclohexanone

 Methyl alcohol

 Dimethylformamide

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
 Revision Date 09/26/2023

Page 23 of 24
 Print Date 09/28/2023

Acetone

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.

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

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. 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

SAFETY DATA SHEET

P1395ACL CLEAR

Version Number 1.12
Revision Date 09/26/2023

Page 24 of 24
Print Date 09/28/2023

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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.

History

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Version : 1.12

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

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