SAFETY DATA SHEET

MLCPS5

Section 1. Identification

Product name	: PS5 PU Slow Retarder
Product code	: MLCPS5
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of th	e substance or mixture and uses advised against

Paint or paint related material.

Manufacturer	: M. L. CAMPBELL 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: (800) 424-9300
Product Information Telephone Number	: (800) 364-1359
Transportation Emergency Telephone Number	: (800) 424-9300

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 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 15.6% (dermal), 23% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statements

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Section 2. Hazards identification

Prevention	: Wear protective gloves, protective clothing, eye protection, face protection, or hearing 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. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: 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 container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	% by weight	Identifiers
Methyl n-Amyl Ketone	≥25 - ≤44	110-43-0
2-Butoxyethyl Acetate	≥25 - ≤39	112-07-2
Ethyl 3-Ethoxypropionate	≥10 - ≤25	763-69-9
n-Butyl Acetate	≥10 - ≤25	123-86-4
Methyl n-Propyl Ketone	≤10	107-87-9
Heptanoic acid	<3	111-14-8

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.

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Section 4. First aid measures

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.
Skin contact :	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. 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 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 effe	<u>ots</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>itoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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.

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Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.
Remark	: Flammable liquid.

Section 6. Accidental release measures

Personal precautions, protec	tive 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 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 co	ntainment and cleaning up

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.

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Section 6. Accidental release measures

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). Do not ingest. Avoid contact with eyes, skin and clothing. 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 incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits		
Methyl n-Amyl Ketone	110-43-0	ACGIH TLV (United TWA 8 hours: 50 p TWA 8 hours: 233 NIOSH REL (United TWA 10 hours: 100 TWA 10 hours: 463 OSHA PEL (United TWA 8 hours: 100 TWA 8 hours: 465	ppm. mg/m ³ . d States, 10/2020) 0 ppm. 5 mg/m ³ . States, 5/2018) ppm.	
2-Butoxyethyl Acetate	112-07-2	ACGIH TLV (United TWA 8 hours: 20 p NIOSH REL (United TWA 10 hours: 5 p TWA 10 hours: 33	d States, 10/2020) opm.	
Ethyl 3-Ethoxypropionate	763-69-9	None.	0	
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· · · · · · · · · · · · · · · · · · ·		
n-Butyl Acetate	123-86-4	ACGIH TLV (United States, 1/2024) [Butyl acetates] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 150 ppm. TWA 10 hours: 710 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 950 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm. TWA 8 hours: 710 mg/m ³ .
Methyl n-Propyl Ketone	107-87-9	ACGIH TLV (United States, 1/2024) STEL 15 minutes: 150 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 150 ppm. TWA 10 hours: 530 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 700 mg/m ³ .
Heptanoic acid	111-14-8	None.

Occupational exposure limits (Canada)

ngredient name	CAS #	Exposure limits
Methyl n-amyl ketone	110-43-0	 CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 50 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 25 ppm. TWA 8 hours: 115 mg/m³. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 233 mg/m³. OEL 8 hours: 50 ppm.
Ethylene glycol butyl ether acetate	112-07-2	 CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. CA British Columbia Provincial (Canada 4/2024) TWA 8 hours: 20 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm. CA Quebec Provincial (Canada, 2/2024) C3. TWAEV 8 hours: 10 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 131 mg/m³. OEL 8 hours: 20 ppm.
n-butyl acetate	123-86-4	CA Saskatchewan Provincial (Canada,

Section 8. Exposure controls/personal protection

		 4/2021) STEL 15 minutes: 200 ppm. TWA 8 hours: 150 ppm. CA British Columbia Provincial (Canada, 4/2024) [butyl acetate, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. CA Quebec Provincial (Canada, 2/2024) [butyl acetates] STEV 15 minutes: 150 ppm. TWAEV 8 hours: 50 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 15 minutes: 200 ppm. OEL 15 minutes: 950 mg/m³. OEL 8 hours: 150 ppm. OEL 8 hours: 713 mg/m³.
Methyl propyl ketone	107-87-9	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 250 ppm. TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 150 ppm. STEL 15 minutes: 250 ppm. CA Ontario Provincial (Canada, 6/2019) STEL 15 minutes: 150 ppm. CA Quebec Provincial (Canada, 2/2024) STEV 15 minutes: 150 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 200 ppm. OEL 15 minutes: 250 ppm. OEL 15 minutes: 250 ppm. OEL 15 minutes: 250 ppm. OEL 15 minutes: 250 ppm.

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 50 ppm.
2-Butoxyethyl Acetate	112-07-2	NOM-010-STPS-2014 (Mexico, 4/2016) A3. TWA 8 hours: 20 ppm.
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 150 ppm.
Methyl n-Propyl Ketone	107-87-9	STEL 15 minutes: 200 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) STEL 15 minutes: 150 ppm.

Biological exposure indices (United States)

No exposure indices known.

Biological exposure indices (Canada)

No exposure indices known.

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Section 8. Exposure controls/personal protection

Biological exposure indices (Mexico)

No exposure indices known.

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 measured	<u>ures</u>
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.

Section 9. Physical and chemical properties

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

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Melting point/freezing point	: Not available.	
рН	: Not applicable.	
Odor threshold	: Not available.	
Odor	: Not available.	
Color	: Clear.	
Physical state	: Liquid.	
<u>Appearance</u>		

Section 9. Physical and chemical properties

Boiling point or initial boiling point and boiling range	: 102	°C (215.6°F)
Flash point	: Clo	sed cup: 36°C (96.8°F) [Setaflash Closed Cup]
Evaporation rate	: 2.3	(butyl acetate = 1)
Flammability	: Flar	nmable liquid.
Lower and upper explosion limit/flammability limit		/er: 0.5% ber: 12.1%
Vapor pressure	: 3.7	kPa (27.8 mm Hg)
Relative vapor density	: 3.4	5 [Air = 1]
Relative density	: 0.87	7
Density	: 0.87	7 g/cm³
Solubility(ies)	:	
Media		Result
cold water		Not soluble
Partition coefficient: n- octanol/water	: Not	applicable.
Auto-ignition temperature	: Not	available.
Decomposition temperature	: Not	available.
Viscosity	 Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) 	
Molecular weight	: No	t applicable.
Particle characteristics		
Median particle size	: Not	applicable.
Heat of combustion	: 30.9	97 kJ/g

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
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. Do not allow vapor to accumulate in low or confined areas.
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.

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nformation on toxicological effects	
Acute toxicity	
Product/ingredient name	Result
Methyl n-Amyl Ketone	Rat - Oral - LD50
, ,	1600 mg/kg <u>Toxic effects</u> : Behavioral - Ataxia Lung, Thorax, or Respiration -
	Respiratory depression
2-Butoxyethyl Acetate	Rat - Oral - LD50
, , , , , , , , , , , , , , , , , , ,	2400 mg/kg
	<u>Toxic effects</u> : Kidney, Ureter, and Bladder - Hematuria Kidney, Ureter, and Bladder - Other changes in urine composition
	Rabbit - Dermal - LD50
	1500 mg/kg
	Toxic effects: Kidney, Ureter, and Bladder - Hematuria Kidney,
	Ureter, and Bladder - Other changes in urine composition Blood
	Normocytic anemia
Ethyl 3-Ethoxypropionate	Rat - Oral - LD50
	3200 mg/kg
	<u>Toxic effects</u> : Behavioral - Ataxia
n-Butyl Acetate	Rat - Oral - LD50
	10768 mg/kg
	<u>Toxic effects</u> : Behavioral - Somnolence (general depressed
	activity) Lung, Thorax, or Respiration - Other changes Liver -
	Other changes
	Rabbit - Dermal - LD50
Methyl n-Propyl Ketone	>17600 mg/kg Rat - Oral - LD50
	1600 mg/kg
	Rabbit - Dermal - LD50
	6500 mg/kg
Heptanoic acid	Rat - Oral - LD50
	7 g/kg
Conclusion/Summary [Product]	: Not available.
Skin corrosion/irritation	
	Deput
Product/ingredient name	Result
Methyl n-Amyl Ketone	Rabbit - Skin - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 14 mg
2-Butoxyethyl Acetate	Rabbit - Skin - Mild irritant
Ethyl 3-Ethoxypropionate	<u>Amount/concentration applied</u> : 500 mg Rabbit - Skin - Mild irritant
	Duration of treatment/exposure: 24 hours
	<u>Amount/concentration applied</u> : 500 mg
n-Butyl Acetate	Rabbit - Skin - Moderate irritant
The Bully Modulo	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
Methyl n-Propyl Ketone	Rabbit - Skin - Mild irritant
· · · · · · · · · · · · · · · · · · ·	Amount/concentration applied: 405 mg
Conclusion/Summary [Product]	<u>Amount/concentration applied</u> : 405 mg : Not available.

Serious eye damage/eye irritation	
Product/ingredient name	Result
2-Butoxyethyl Acetate	Rabbit - Eyes - Mild irritant
n-Butyl Acetate	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg Rabbit - Eyes - Moderate irritant <u>Amount/concentration applied</u> : 100 mg
Conclusion/Summary [Product] : Not ava	ilable.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not ava	ilable.
Respiratory or skin sensitization	
Not available.	
Skin	
Conclusion/Summary [Product] : Not ava	ilahle
Respiratory	
Conclusion/Summary [Product] : Not ava	ilable.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Germ cell mutagenicity	
Not available.	
Conclusion/Summary [Product] : Not ava	ilable.
Carcinogenicity	
Not available.	
Conclusion/Summary [Product] : Not ava	ilable.
Reproductive toxicity	
Not available.	
Conclusion/Summary [Product] : Not ava	ilable.
Specific target organ toxicity (single exposure)	
Product/ingredient name	Result
Methyl n-Amyl Ketone	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
n-Butyl Acetate	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

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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. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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	1	Not available.
Potential chronic health effe	ects	5

Not available.

Conclusion/Summary [Product]

: Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.

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Mutagenicity Reproductive toxicity

- : 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 (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PS5 PU Slow Retarder	1101.7	4196.7	N/A	13.2	N/A
Methyl n-Amyl Ketone	1600	N/A	N/A	11	N/A
2-Butoxyethyl Acetate	500	1500	N/A	11	N/A
Ethyl 3-Éthoxypropionate	3200	N/A	N/A	N/A	N/A
n-Butyl Acetate	10768	N/A	N/A	N/A	N/A
Methyl n-Propyl Ketone	1600	6500	N/A	N/A	N/A
Heptanoic acid	7000	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity	
Product/ingredient name	Result
Methyl n-Amyl Ketone	Acute - LC50 - Fresh water
	Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u> : 32 days; <u>Size</u> : 18.4 mm; <u>Weight</u> : 0.095 g
	131 mg/l [96 hours]
	Effect: Mortality
n-Butyl Acetate	Acute - LC50 - Fresh water
	Fish - Fathead minnow - Pimephales promelas
	<u>Age</u> : 31 to 32 days; <u>Size</u> : 21.6 mm; <u>Weight</u> : 0.175 g
	18 mg/l [96 hours]
	<u>Effect</u> : Mortality Acute - LC50 - Marine water
	Crustaceans - Brine shrimp - Artemia salina
	32 mg/l [48 hours]
	<u>Effect</u> : Mortality
Methyl n-Propyl Ketone	Acute - LC50 - Fresh water
	Fish - Fathead minnow - Pimephales promelas
	<u>Age</u> : 32 days; <u>Size</u> : 18.4 mm; <u>Weight</u> : 0.095 g
	1240 mg/l [96 hours]
	Effect: Mortality
Heptanoic acid	Acute - EC50 OECD
	Algae - Green algae - <i>Chlorella vulgaris</i> - Exponential growth
	phase
	, 150 μg/l [72 hours]
	Effect: Population

Conclusion/Summary [Product]

Persistence and degradability

Not available.

Date of issue/Date of revision

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Date of previous issue

: 5/16/2025

: Not available.

: 5/14/2025

Conclusion/Summary [Product]

	Not	avai	abl	e.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl n-Amyl Ketone 2-Butoxyethyl Acetate n-Butyl Acetate	-	-	Readily Readily Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/Water partition coefficient

: 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.

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED
Transport hazard class(es)	3	3	3	3	3
Packing group	III	Ш	Ш	111	111
Environmental hazards	No.	No.	No.	No.	No.
Date of issue/Date of rev MLCPS5 PS5 I	rision : 5/16/20 PU Slow Retarder	25 Date of previous i	 issue : 5/14/202		 on : 16.03 1 - 85-NA-GHS-US

rt information 0 - - 1 - - - 4 4

Additional	-	Product classified			Emorgonov
information	- ERG No.	as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). ERG No.	ERG No.	-	Emergency schedules F-E, S E
	128	<u>ERG NO.</u> 128	128		
Special precautio	cons mod suita to sl of th dans	i-modal shipping descrip sider container sizes. The e of transport (sea, air, ably for that mode of tran hipment, and compliance e person offering the progerous goods must be to on all actions in case of	e presence of a ship etc.), does not indicans port. All packaging with the applicable oduct for transport. I rained on all of the ri	oping description for ate that the product i g must be reviewed f regulations is the so People loading and u sks deriving from the	a particular is packaged for suitability prior ole responsibility unloading
ransport in bulk o IMO instrument	according : Not a		0		
	Prop	er shipping name	: Not available.		

Proper shipping name

: Not available.

Section 15. Regulatory information

t

U.S. Federal regulations

SARA 313

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production. Reporting of chemicals in this section does not necessarily indicate their presence in the final formulated product.

Ingredient name	% by weight	CAS number	
2-Butoxyethyl Acetate Glycol Ethers (SARA)	30 30	112-07-2	

California Prop. 65

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

Date of previous issue

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

: 5/16/2025

Not listed.

Date of issue/Date of revision

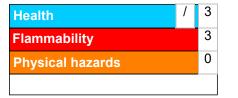
MLCPS5

Section 15. Regulatory information

International lists	: Australia inventory (AIIC): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (CSCL): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

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



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.

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.

Procedure used to derive the classification

Classification	Justification	
FLAMMABLE LIQUIDS - Category 3	On basis of test data	
ACUTE TOXICITY (oral) - Category 4	Calculation method	
ACUTE TOXICITY (inhalation) - Category 4	Calculation method	
SKIN CORROSION/IRRITATION - Category 2	Calculation method	
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method	
Category 3		

<u>HISTOLA</u>	
Date of printing	: 5/16/2025
Date of issue/Date of revision	: 5/16/2025
Date of previous issue	: 5/14/2025
Version	: 16.03
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 = International Air Transport Association IBC = 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) N/A = Not available SGG = Segregation Group

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MLCPS5	PS5 PU Slow Retarder				SHW-85-	NA-GHS-US	

Section 16. Other information

UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition. hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.