

MSDS No: CC01101
Version: Rev A
Revision date: 07/30/2021

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product name Cyan

Details of the supplier of the safety data sheet:

Manufacturer/Supplier name

Address

Palitra, LLC.
26 Pickerel Rd
Wellesley, MA 02482
1-617-331-6748
1-617-331-6748

Customer Service

Emergency telephone (English only)

Relevant uses and uses advised against:

Use: Printing ink – professional use. The ink is contained in a cartridge. Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited

SECTION 2: HAZARD(S) IDENTIFICATION

GHS-US Classification

Aspiration hazard	Category 1
Chronic aquatic toxicity	Category 3

GHS label elements

Signal word	Danger
Hazard statements	H304 – may be fatal if swallowed and enters airways H412 – harmful to aquatic life with long lasting effects



Precautionary statements

Prevention

Response

Storage

P273: avoid release to the environment

P301+P310+P331: If swallowed: immediately call a
POISON CENTER or doctor. DO NOT induce vomiting

P405: store locked up

Store cartridge in original packaging until ready to use. Do
not store opened and/or partially used cartridges.

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Disposal

P501: Dispose of contents and cartridge in accordance with all local, regional, national and international regulations.

Other hazards

Prolonged or repeated contact with ink may dry skin and cause irritation.

Unknown acute toxicity

2% of the mixture consists of ingredients of unknown acute toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Weight %	GHS classification
Mineral oil	8042-47-5	90-100	Aspiration hazard cat.1
Blue colorant	mixture	1-4	Aspiration hazard cat. 1 Specific target organ toxicity (single exposure) cat.3 Chronic aquatic toxicity cat.2

Additional information

Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited.

SECTION 4: FIRST AID MEASURES

Inhalation

Move victim to fresh air. Consult a physician. If breathing is irregular or stopped, provide artificial respiration or oxygen by trained personnel. Use barrier to give mouth-to-mouth resuscitation. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Skin contact

Wash skin thoroughly with soap and water. Remove all contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medical attention if symptoms occur.

Eye contact

Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. After initial flushing,

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check for and remove any contact lenses and continue flushing for at least 15min. Get medical attention.

Ingestion

Get medical attention immediately. DO NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Aspiration hazard if swallowed. Rinse mouth with water. Remove dentures if any. Move victim to fresh air and keep at rest in a position comfortable for breathing. 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 collar, tie, belt or waistband.

Most important symptoms, both acute and delayed

Inhalation	No known significant effects or critical hazards. Exposure not probable with intended use
Skin contact	May cause skin dryness and irritation. Exposure to ink not probable with intended use
Eye contact	No known significant effects or critical hazards. Exposure to ink not probable with intended use
Ingestion	May be fatal if swallowed and enters airways. Exposure not probable with intended use

Indication of immediate medical 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
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog)
Unsuitable extinguishing media	Do not use water jet

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Specific hazards during fire fighting	In a fire, a pressure increase will occur and the cartridge may burst
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide
Special protective equipment for fire-fighters	As in any fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	In case of spill, avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash contaminated clothing before reuse. Do not breathe vapor or mist. Do not eat, drink or smoke. Ensure adequate ventilation
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Try to prevent material from entering drains or water courses. Recover the product in solid form if possible.
Methods and materials for containment and cleaning up	Prevent further leakage or spillage if safe to do so. Move cartridges from spill area. Absorb spill with an inert dry material and place in appropriate waste disposal container. Use personal protective equipment. Clean contaminated surface thoroughly.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	To avoid damage to cartridge and accidental contact with ink KEEP OUT OF REACH OF CHILDREN. Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work.
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Conditions for safe storage

Store cartridge in a dry, cool, well-ventilated area away from heat and direct sunlight. Keep in the original unopened package until ready to use.
Recommended storage temperature: 15-30°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredient name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral oil	TWA: 5mg/m ³ 8 hours. Form: inhalable fraction	TWA: 5mg/m ³ 8 hours	TWA: 5mg/m ³ 10 hours Form: mist STEL: 10mg/m ³ 15 min Form: mist
Glycol ether DPM CAS # 34590-94-8	TWA: 100ppm 606mg/m ³ STEL: 150ppm 909mg/m ³	Not established	IDLH: 600ppm TWA: 100ppm TWA: 600mg/m ³ STEL: 150ppm STEL: 900mg/m ³

Engineering measures

None required for intended use

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Hand protection

None required when used as intended in Rize printer. In case of spill, wear protective gloves

Eye protection

None required when used as intended in Rize printer. Wear safety glasses in case of spill to avoid exposure to liquid splashes or mists.

Skin protection

None required when used as intended in Rize printer. Wear impervious protective clothing, as appropriate in case of spill to prevent skin contact.

Respiratory protection

None required when used as intended in Rize printer.

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Hygiene measures

Wash hands before eating, drinking or smoking and using the lavatory. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Dark blue
Odor	Aromatic
Odor threshold	Not available
pH	Not available
Viscosity (dynamic)	17 cPs
Relative density	Not available
Freezing point	Not available
Boiling point/range	> 218°C
Flash point	> 95°C
Water solubility	insoluble
Evaporation rate	Not available
Explosion limits	Not available
Vapor pressure	Not available
Relative vapor density	Not available
Decomposition temperature	Not available
Autoignition temperature	Not available
Explosive properties	Not available
Oxidizing properties	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or ingredients
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal conditions of storage and use
Conditions to avoid	Extreme temperatures and direct sunlight
Incompatible materials	No specific data
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	LD50 Oral (Rat)	LD50 Dermal (Rabbit)	LC50 Inhalation
Mineral oil 8042-47-5	>5000 mg/kg	>2000 mg/kg	Dusts and mists >5mg/L (Rat) 4 hours
Glycol ether DPM 34590-94-8	5400 µL/kg	9500 mg/kg	No data available
Ethylhexylamine 104-75-6	450 mg/kg	600 µL/kg	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not available
Serious eye damage/eye irritation	Not available
Skin sensitization	Not available
Respiratory sensitization	Not available
Germ cell mutagenicity	Not available
Reproductive toxicity	Not available
Specific target organ toxicity (single exposure)	Not available
Specific target organ toxicity (repeated exposure)	Not available
Aspiration hazard	Risk of serious damage to the lungs (by aspiration). May be fatal if swallowed and enters airways.
Carcinogenicity	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

Unknown acute toxicity

2% of the mixture consists of ingredient(s) of unknown acute toxicity

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

2% of the mixture consists of components of unknown hazards to the aquatic environment

Chemical name	Algae	Fish	Daphnia
Mineral oil (petroleum)		LC50 > 10000 mg/L 96h	LC50 > 100 mg/L 48h
Naphta(petroleum),heavy aromatic	EC50 : 2.5 mg/L 72h skeletonema costatum	LC50 pimephales promelas: 19 mg/L 96h static; 45 mg/L 96h flow-through; 41 mg/L 96h LC50 lepomis macrochirus: 1740 mg/L 96h static LC50 oncorhynchus mykiss: 2.34 mg/L 96h	EC50 : 0.95 mg/L 48h daphnia magna
Glycol ether DPM		LC50 : 10000 mg/L 96h pimephales promelas static	LC50 : 1919 mg/L 48h daphnia magna

Persistence and degradability Not available

Mobility in soil Not available

Other adverse effects Not available

Bioaccumulative potential

Chemical name	Log Pow
Mineral oil (petroleum)	> 6
Naphta(petroleum),heavy aromatic	2.9 – 6.1
Glycol ether DPM	-0.064

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations

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SECTION 14: TRANSPORT INFORMATION

Domestic regulation

DOT: not regulated

International regulations

IATA: not regulated

IMDG: not regulated

TDG: not regulated

SECTION 15: REGULATORY INFORMATION

EPA SARA TITLE III CHEMICAL LISTINGS

Section 311/312: Immediate (acute) health hazard

US State Right to Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois
Mineral oil		X		
Glycol ether DPM	X	X	X	X
Ethylhexylamine	X	X	X	

California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens

International regulations

TSCA	All ingredients included or exempt from listing
EINECS/ELINCS	All ingredients listed or exempt
KECL	All ingredients listed, exempt or notified
AICS	All ingredients listed or exempt
IECSC	All ingredients listed or exempt
PICCS	All ingredients listed or exempt
DSL	All ingredients listed or exempt
ENCS/ISHL	All ingredients listed or exempted from inventory listing
NZIoC	All ingredients listed or exempt

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SECTION 16: OTHER INFORMATION

HMIS

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant; 1=slight; 2=moderate; 3=high; 4=extreme

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Disclaimer

The information provided in this Material Safety Data Sheet is accurate to the best of our knowledge, information and belief at the date of its publication, however Rize Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability is the sole responsibility of the user. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Rize Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Rize Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

End of safety data sheet

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product name Magenta

Details of the supplier of the safety data sheet:

Manufacturer/Supplier name

Address

Palitra, LLC.
26 Pickerel Rd
Wellesley, MA 02482
1-617-331-6748
1-617-331-6748

Customer Service

Emergency telephone (English only)

Relevant uses and uses advised against:

Use: Printing ink – professional use. The ink is contained in a cartridge. Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited

SECTION 2: HAZARD(S) IDENTIFICATION

GHS-US Classification

Eye irritation	Category 2A
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GHS label elements

Signal word	Warning
Hazard statements	H319 Causes serious eye irritation



Precautionary statements

Prevention

P264: wash hands thoroughly after handling

P280: Wear eye protection/face protection

Response

P305+P351+P338: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313: if eye irritation persists: get medical advice/attention

Storage

P405: store locked up

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Disposal

Store cartridge in original packaging until ready to use. Do not store opened and/or partially used cartridges.

P501: Dispose of contents and cartridge in accordance with all local, regional, national and international regulations.

Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Weight %	GHS classification
1-phenoxy-2-propanol	770-35-4	2-25	Eye irritation (category 2A)
Red colorant	mixture	1-5	Acute toxicity/oral (cat.4) Skin corrosion/irritation (cat.3) Eye damage/irritation (cat.2B) Acute toxicity/inhalation (cat.5)

Additional information

Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited.

SECTION 4: FIRST AID MEASURES

Inhalation

Move victim to fresh air. Consult a physician. If breathing is irregular or stopped, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Skin contact

Wash skin thoroughly with soap and water. Remove all contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medical attention if symptoms occur.

Eye contact

Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. After initial flushing, check for and remove any contact lenses and continue flushing for at least 15min. Get medical attention.

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Ingestion

Rinse mouth with water. 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 collar, tie, belt or waistband.

Most important symptoms, both acute and delayed

Inhalation	No known significant effect or critical hazard. Exposure not probable with intended use
Skin contact	No known significant effect or hazard. Exposure to ink not probable with intended use
Eye contact	May cause serious eye irritation. Exposure to ink not probable with intended use
Ingestion	No known significant effect or critical hazard. Exposure not probable with intended use

Indication of immediate medical 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
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog)
Unsuitable extinguishing media	Do not use water jet
Specific hazards during fire fighting	In a fire, a pressure increase will occur and the cartridge may burst
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide
Special protective equipment for fire-fighters	As in any fire, fire-fighters should wear appropriate protective equipment and self-contained breathing

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apparatus with a full face piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

In case of spill, avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash contaminated clothing before reuse. Do not breathe vapor or mist. Do not eat, drink or smoke. Ensure adequate ventilation

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Try to prevent material from entering drains or water courses. Recover the product in solid form if possible.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Move cartridges from spill area. Absorb spill with an inert dry material and place in appropriate waste disposal container. Use personal protective equipment. Clean contaminated surface thoroughly.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

To avoid damage to cartridge and accidental contact with ink KEEP OUT OF REACH OF CHILDREN. Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes

Conditions for safe storage

Store cartridge in a dry, cool, well-ventilated area away from heat and direct sunlight. Keep in the original unopened package until ready to use.
Recommended storage temperature: 15-30°C

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredient name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral oil CAS#8042-47-5	TWA: 5mg/m ³ 8 hours. Form: inhalable fraction	TWA: 5mg/m ³ 8 hours	TWA: 5mg/m ³ 10 hours Form: mist STEL: 10mg/m ³ 15 min Form: mist

Engineering measures

None required for intended use

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Hand protection	None required when used as intended in Rize printer. In case of spill, wear protective gloves
Eye protection	None required when used as intended in Rize printer. Wear safety glasses in case of spill to avoid exposure to liquid splashes or mists.
Skin protection	None required when used as intended in Rize printer. Wear impervious protective clothing, as appropriate in case of spill to prevent skin contact.
Respiratory protection	None required when used as intended in Rize printer.
Hygiene measures	Wash hands before eating, drinking or smoking and using the lavatory. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Red
Odor	Aromatic
Odor threshold	Not available
pH	Not available
Viscosity (dynamic)	15 cPs
Relative density	Not available
Freezing point	Not available

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Boiling point/range	Not available
Flash point	> 95°C
Water solubility	insoluble
Evaporation rate	Not available
Explosion limits	Not available
Vapor pressure	Not available
Relative vapor density	Not available
Decomposition temperature	Not available
Autoignition temperature	Not available
Explosive properties	Not available
Oxidizing properties	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or ingredients
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal conditions of storage and use
Conditions to avoid	Extreme temperatures and direct sunlight. Oxidizing and reducing agents
Incompatible materials	Oxidizing and reducing agents may destroy color
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: TOXICOLOGICAL INFORMATION**Acute toxicity**

Chemical name	LD50 Oral (Rat)	LD50 Dermal (Rabbit)	LC50 Inhalation
Mineral oil 8042-47-5	>5000 mg/kg	>2000 mg/kg	Dusts and mists >5mg/L (Rat) 4 hours
1-phenoxy-2-propanol 770-35-4	>2000mg/kg	>2000 mg/kg	>5.4mg/L (rat) 4hours
Tri(propylene glycol)butyl ether 55934-93-5	2600 mg/kg	>2000 µL/kg	No data available

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	May cause eye irritation

Skin sensitization	No data available
Respiratory sensitization	No data available

Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Chemical name	Algae	Fish	Daphnia
Mineral oil (petroleum)		LC50 > 10000 mg/L 96h	LC50 > 100 mg/L 48h
Tri(propylene glycol) butyl ether		LC50 poecilia reticulata: 564 mg/L 96h semi-static	EC50 daphnia magna: >100 mg/L 48h static
1-phenoxy-2-propanol	Growth inhibition EC50: >100 mg/L 72h Desmodesmus subspicatus	LC50 : 280 mg/L pimephales promelas s	EC50 : 370 mg/L daphnia magna

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Persistence and degradability Not available

Mobility in soil Not available

Other adverse effects Not available

Bioaccumulative potential

Chemical name	Log Pow
Mineral oil (petroleum)	> 6

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations

SECTION 14: TRANSPORT INFORMATION

Domestic regulation

DOT: not regulated

International regulations

IATA: not regulated

IMDG: not regulated

TDG: not regulated

SECTION 15: REGULATORY INFORMATION

EPA SARA TITLE III CHEMICAL LISTINGS

Section 311/312: Immediate (acute) health hazard

US State Right to Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois
Mineral oil		X		
1-phenoxy-2-propanol		X	X	
[(butoxymethylethoxy)methylethoxy]propan-1-ol		X	X	
Beta-caryophyllene		X	X	

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California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens

SECTION 16: OTHER INFORMATION

HMIS

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant; 1=slight; 2=moderate; 3=high; 4=extreme

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Revision date : N/A

Disclaimer

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End of safety data sheet

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product name Yellow

Details of the supplier of the safety data sheet:

Manufacturer/Supplier name

Address

Palitra, LLC.
26 Pickereel Rd
Wellesley, MA 02482
1-617-331-6748
1-617-331-6748

Customer Service

Emergency telephone (English only)

Relevant uses and uses advised against:

Use: Printing ink – professional use. The ink is contained in a cartridge. Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited

SECTION 2: HAZARD(S) IDENTIFICATION

GHS-US Classification

Eye irritation	Category 2A
Acute aquatic toxicity	Category 2

GHS label elements

Signal word	Warning
Hazard statements	H319 Causes serious eye irritation H401 Toxic to aquatic life



Precautionary statements

Prevention

P264: wash hands thoroughly after handling

P273: avoid release to the environment

P280: Wear eye protection/face protection

Response

P305+P351+P338: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P337+P313: if eye irritation persists get medical advice/attention
Store cartridge in original packaging until ready to use. Do not store opened and/or partially used cartridges.
P501: Dispose of contents and cartridge in accordance with all local, regional, national and international regulations.

Storage

Disposal

Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Weight %	GHS classification
1-phenoxy-2-propanol	770-35-4	2-25	Eye irritation (category 2A)
Yellow colorant	mixture	1-5	Specific target organ toxicity (cat.3) Carcinogenicity (cat.2) Acute toxicity/oral (cat.5) Skin corrosion/irritation (cat.3) Eye damage/irritation (cat.2A) Acute aquatic toxicity (cat.1)

Additional information

Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited.

SECTION 4: FIRST AID MEASURES

Inhalation

Move victim to fresh air. Consult a physician. If breathing is irregular or stopped, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Skin contact

Wash skin thoroughly with soap and water. Remove all contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medical attention if symptoms occur.

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Eye contact	Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. After initial flushing, check for and remove any contact lenses and continue flushing for at least 15min. Get medical attention.
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Ingestion	Do not induce vomiting. Rinse mouth with water. 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 collar, tie, belt or waistband.
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Most important symptoms, both acute and delayed

Inhalation	No known significant effect or critical hazard. Exposure not probable with intended use
Skin contact	No known significant effect or hazard. Exposure to ink not probable with intended use
Eye contact	May cause serious eye irritation. Exposure to ink not probable with intended use
Ingestion	No known significant effect or critical hazard. Exposure not probable with intended use

Indication of immediate medical 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
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

SECTION 5: FIRE FIGHTING MEASURES
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Suitable extinguishing media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog)
Unsuitable extinguishing media	Do not use water jet
Specific hazards during fire fighting	In a fire, a pressure increase will occur and the cartridge may burst

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Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide
Special protective equipment for fire-fighters	As in any fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	In case of spill, avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash contaminated clothing before reuse. Do not breathe vapor or mist. Do not eat, drink or smoke. Ensure adequate ventilation
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Try to prevent material from entering drains or water courses. Recover the product in solid form if possible.
Methods and materials for containment and cleaning up	Prevent further leakage or spillage if safe to do so. Move cartridges from spill area. Absorb spill with an inert dry material and place in appropriate waste disposal container. Use personal protective equipment. Clean contaminated surface thoroughly.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	To avoid damage to cartridge and accidental contact with ink KEEP OUT OF REACH OF CHILDREN. Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes
Conditions for safe storage	Store cartridge in a dry, cool, well-ventilated area away from heat and direct sunlight. Keep in the original unopened package until ready to use. Recommended storage temperature: 15-30°C

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredient name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral oil CAS#8042-47-5	TWA: 5mg/m ³ 8 hours. Form: inhalable fraction	TWA: 5mg/m ³ 8 hours	TWA: 5mg/m ³ 10 hours Form: mist STEL: 10mg/m ³ 15 min Form: mist

Engineering measures

None required for intended use

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Hand protection	None required when used as intended in Rize printer. In case of spill, wear protective gloves
Eye protection	None required when used as intended in Rize printer. Wear safety glasses in case of spill to avoid exposure to liquid splashes or mists.
Skin protection	None required when used as intended in Rize printer. Wear impervious protective clothing, as appropriate in case of spill to prevent skin contact.
Respiratory protection	None required when used as intended in Rize printer.
Hygiene measures	Wash hands before eating, drinking or smoking and using the lavatory. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Yellow
Odor	Aromatic
Odor threshold	Not available
pH	Not available
Viscosity (dynamic)	15 cPs
Relative density	Not available

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Freezing point	Not available
Boiling point/range	Not available
Flash point	> 95°C
Water solubility	insoluble
Evaporation rate	Not available
Explosion limits	Not available
Vapor pressure	Not available
Relative vapor density	Not available
Decomposition temperature	Not available
Autoignition temperature	Not available
Explosive properties	Not available
Oxidizing properties	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or ingredients
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal conditions of storage and use
Conditions to avoid	Extreme temperatures and direct sunlight. Oxidizing and reducing agents
Incompatible materials	Oxidizing and reducing agents may destroy color
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	LD50 Oral (Rat)	LD50 Dermal (Rabbit)	LC50 Inhalation
Mineral oil 8042-47-5	>5000 mg/kg	>2000 mg/kg	Dusts and mists >5mg/L (Rat) 4 hours
1-phenoxy-2-propanol 770-35-4	>2000mg/kg	>2000 mg/kg	>5.4mg/L (rat) 4hours
Tri(propylene glycol)butyl ether 55934-93-5	2600 mg/kg	>2000 µL/kg	No data available

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 Revision date: 07/30/2021

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	May cause eye irritation

Skin sensitization	No data available
Respiratory sensitization	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Chemical name	Algae	Fish	Daphnia
Mineral oil (petroleum)		LC50 > 10000 mg/L 96h	LC50 > 100 mg/L 48h
Tri(propylene glycol) butyl ether		LC50 poecilia reticulata: 564 mg/L 96h semi-static	EC50 daphnia magna: >100 mg/L 48h static
1-phenoxy-2-propanol	Growth inhibition EC50: >100 mg/L 72h Desmodesmus subspicatus	LC50 : 280 mg/L pimephales promelas	EC50 : 370 mg/L daphnia magna

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Persistence and degradability Not available

Mobility in soil Not available

Other adverse effects Not available

Bioaccumulative potential

Chemical name	Log Pow
Mineral oil (petroleum)	> 6

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations

SECTION 14: TRANSPORT INFORMATION

Domestic regulation

DOT: not regulated

International regulations

IATA: not regulated

IMDG: not regulated

TDG: not regulated

SECTION 15: REGULATORY INFORMATION

EPA SARA TITLE III CHEMICAL LISTINGS

Section 311/312: Immediate (acute) health hazard

US State Right to Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois
Mineral oil		X		
1-phenoxy-2-propanol		X	X	
[(butoxymethylethoxy)methylethoxy]propan-1-ol		X	X	
Beta-caryophyllene		X	X	

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Revision date: 07/30/2021

California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens

SECTION 16: OTHER INFORMATION

HMIS

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant; 1=slight; 2=moderate; 3=high; 4=extreme

First issue date : 07/30/2021
Revision date : N/A

Disclaimer

The information provided in this Material Safety Data Sheet is accurate to the best of our knowledge, information and belief at the date of its publication, however Rize Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability is the sole responsibility of the user. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Rize Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Rize Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

End of safety data sheet

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Revision date: 07/30/2021

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product name Black

Details of the supplier of the safety data sheet:

Manufacturer/Supplier name

Address

Customer Service

Emergency telephone (English only)

Palitra, LLC.
26 Pickerel Rd
Wellesley, MA 02482
1-617-331-6748
1-617-331-6748

Relevant uses and uses advised against:

Use: Printing ink – professional use. The ink is contained in a cartridge. Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited

SECTION 2: HAZARD(S) IDENTIFICATION

GHS-US Classification

Eye irritation	Category 2A
Skin irritant	Category 3
Chronic aquatic toxicity	Category 3

GHS label elements

Signal word	Warning
Hazard statements	H319 Causes serious eye irritation H316 Causes mild skin irritation H412 Harmful to aquatic life with long lasting effects



Precautionary statements

Prevention

P264: wash thoroughly after handling

P273: avoid release to the environment

P280: Wear eye protection/face protection

Response

P305+P351+P338: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P337+P313: if eye irritation persists: get medical advice/attention

P332+P313: if skin irritation occurs: get medical advice/attention

Storage

Store cartridge in original packaging until ready to use. Do not store opened and/or partially used cartridges.

Disposal

P501: Dispose of contents and cartridge in accordance with all local, regional, national and international regulations.

Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Weight %	GHS classification
1-phenoxy-2-propanol	770-35-4	2-25	Eye irritation (category 2A)
Black colorant	mixture	1-5	Aspiration hazard (cat.2) Carcinogenicity (cat.1) Skin corrosion/irritation (cat.2) Eye damage/irritation (cat.2B) Chronic aquatic toxicity (cat.2)

Additional information

Under normal conditions of use, the ink is released from the cartridge only inside the printer, therefore exposure is limited.

SECTION 4: FIRST AID MEASURES

Inhalation

Move victim to fresh air. Consult a physician. If breathing is irregular or stopped, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Skin contact

Wash skin thoroughly with soap and water. Remove all contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medical attention if symptoms occur.

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Eye contact	Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. After initial flushing, check for and remove any contact lenses and continue flushing for at least 15min. Get medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. 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 collar, tie, belt or waistband.

Most important symptoms, both acute and delayed

Inhalation	No known significant effect or critical hazard. Exposure not probable with intended use
Skin contact	No known significant effect or hazard. Exposure to ink not probable with intended use
Eye contact	May cause serious eye irritation. Exposure to ink not probable with intended use
Ingestion	No known significant effect or critical hazard. Exposure not probable with intended use

Indication of immediate medical 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
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

SECTION 5: FIRE FIGHTING MEASURES
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Suitable extinguishing media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog)
Unsuitable extinguishing media	Do not use water jet
Specific hazards during fire fighting	In a fire, a pressure increase will occur and the cartridge may burst

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Revision date: 07/30/2021

Hazardous combustion products

Decomposition products may include the following materials: carbon dioxide, carbon monoxide

Special protective equipment for fire-fighters

As in any fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

In case of spill, avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash contaminated clothing before reuse. Do not breathe vapor or mist. Do not eat, drink or smoke. Ensure adequate ventilation

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Try to prevent material from entering drains or water courses. Recover the product in solid form if possible.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Move cartridges from spill area. Absorb spill with an inert dry material and place in appropriate waste disposal container. Use personal protective equipment. Clean contaminated surface thoroughly.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

To avoid damage to cartridge and accidental contact with ink KEEP OUT OF REACH OF CHILDREN. Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes

Conditions for safe storage

Store cartridge in a dry, cool, well-ventilated area away from heat and direct sunlight. Keep in the original unopened package until ready to use.
Recommended storage temperature: 15-30°C

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Version: Rev A
Revision date: 07/30/2021

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredient name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral oil CAS#8042-47-5	TWA: 5mg/m ³ 8 hours. Form: inhalable fraction	TWA: 5mg/m ³ 8 hours	TWA: 5mg/m ³ 10 hours Form: mist STEL: 10mg/m ³ 15 min Form: mist

Engineering measures

None required for intended use

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Hand protection

None required when used as intended in Rize printer. In case of spill, wear protective gloves

Eye protection

None required when used as intended in Rize printer. Wear safety glasses in case of spill to avoid exposure to liquid splashes or mists.

Skin protection

None required when used as intended in Rize printer. Wear impervious protective clothing, as appropriate in case of spill to prevent skin contact.

Respiratory protection

None required when used as intended in Rize printer.

Hygiene measures

Wash hands before eating, drinking or smoking and using the lavatory. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Black
Odor	Aromatic
Odor threshold	Not available
pH	Not available
Viscosity (dynamic)	15 cPs
Relative density	Not available

MSDS No: CK01101
Version: Rev A
Revision date: 07/30/2021

Freezing point	Not available
Boiling point/range	Not available
Flash point	> 95°C
Water solubility	insoluble
Evaporation rate	Not available
Explosion limits	Not available
Vapor pressure	Not available
Relative vapor density	Not available
Decomposition temperature	Not available
Autoignition temperature	Not available
Explosive properties	Not available
Oxidizing properties	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or ingredients
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal conditions of storage and use
Conditions to avoid	Extreme temperatures and direct sunlight. Oxidizing and reducing agents
Incompatible materials	Oxidizing and reducing agents may destroy color
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	LD50 Oral (Rat)	LD50 Dermal (Rabbit)	LC50 Inhalation
Mineral oil 8042-47-5	>5000 mg/kg	>2000 mg/kg	Dusts and mists >5mg/L (Rat) 4 hours
1-phenoxy-2-propanol 770-35-4	>2000mg/kg	>2000 mg/kg	>5.4mg/L (rat) 4hours
Tri(propylene glycol)butyl ether 55934-93-5	2600 mg/kg	>2000 µL/kg	No data available

MSDS No: CK01101
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	May cause eye irritation

Skin sensitization	No data available
Respiratory sensitization	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Chemical name	Algae	Fish	Daphnia
Mineral oil (petroleum)		LC50 > 10000 mg/L 96h	LC50 > 100 mg/L 48h
Tri(propylene glycol) butyl ether		LC50 poecilia reticulata: 564 mg/L 96h semi-static	EC50 daphnia magna: >100 mg/L 48h static
1-phenoxy-2-propanol	Growth inhibition EC50: >100 mg/L 72h Desmodesmus subspicatus	LC50 : 280 mg/L pimephales promelas	EC50 : 370 mg/L daphnia magna

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Persistence and degradability Not available

Mobility in soil Not available

Other adverse effects Not available

Bioaccumulative potential

Chemical name	Log Pow
Mineral oil (petroleum)	> 6

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations

SECTION 14: TRANSPORT INFORMATION

Domestic regulation

DOT: not regulated

International regulations

IATA: not regulated

IMDG: not regulated

TDG: not regulated

SECTION 15: REGULATORY INFORMATION

EPA SARA TITLE III CHEMICAL LISTINGS

Section 311/312: Immediate (acute) health hazard

US State Right to Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois
Mineral oil		X		
1-phenoxy-2-propanol		X	X	
[(butoxymethylethoxy)methylethoxy]propan-1-ol		X	X	
Beta-caryophyllene		X	X	

MSDS No: CK01101
Version: Rev A
Revision date: 07/30/2021

California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens

SECTION 16: OTHER INFORMATION

HMIS

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant; 1=slight; 2=moderate; 3=high; 4=extreme

First issue date : 07/30/2021
Revision date : N/A

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End of safety data sheet