LA-CO Industries, Inc.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)

Issue date: 08/10/2020 Revision date: 09/04/2020 Version: 1.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Paint-Riter ™ + Heat Treat (2100F, 2200F) White, Yellow, Black, Blue
1.2. Recommended use and res	strictions on use
Use of the substance/mixture	: Marking.
Restrictions on use	: No additional information available
1.3. Supplier	
LA-CO Industries, Inc.	
1201 Pratt Boulevard	
Elk Grove Village, IL. 60007-5746	
Phone: (847) 956-7600	
Fax: (847) 956-9885	
E-mail: <u>customer_service@laco.com</u>	
1.4. Emergency telephone num	ıber
Emergency number	: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;
	全国 应急中心 0532 8388 9090

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Flammable liquids, Category 2 H225 Highly flammable liquid and vapour. Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS labelling Hazard pictograms (GHS)

Signal word (GHS) : Danger Hazard statements (GHS US) : H225 - Highly flammable liquid and vapour. Precautionary statements (GHS) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
dimethyl carbonate	(CAS-No.) 616-38-6	15 - 45	Flam. Liq. 2, H225
Titanium dioxide	(CAS-No.) 13463-67-7	0 - 40	Carc. 2, H351
Cyclohexanone	(CAS-No.) 108-94-1	5 - 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and effe	cts (acute and delayed)
Symptoms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/effects after ingestion	: Like any product not designed to be ingested, this product may cause stomach distress if

: Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically and supportively.

SECTION 5: Fire-fighting measu	res
5.1. Suitable (and unsuitable) extin	guishing media
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
5.2. Specific hazards arising from t	he chemical
Fire hazard	: Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2). Highly flammable liquid and vapour. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Flammable vapours may accumulate in the container.
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers.
Reactivity	: No dangerous reactions known.
5.3. Special protective equipment a	and precautions for fire-fighters
Precautionary measures fire	: Store in dry, cool, well-ventilated area.
Firefighting instructions	: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protecti	ve equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Do not breathe aerosol. Do not breathe vapour. Do not get in eyes, on skin, or on clothing.

6.1.1. For non-emergency personnel

Pro	tective	equipment	

: Refer to section 8.2. EN (English)

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Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergene	cy responders
Protective equipment	: Refer to section 8.2.
Emergency procedures	: Ventilate area.
6.2. Environmenta Avoid release to the env	al precautions vironment.
6.3. Methods and	material for containment and cleaning up
For containment	: Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.
6.4. Reference to	other sections
Section 13: disposal info	prmation. Section 7: safe handling. Section 8: personal protective equipment.
SECTION 7: Hand	

olorige in a storage	
7.1. Precautions for safe handling	
Precautions for safe handling	No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Do not breathe aerosol. Do not breathe vapours. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	 Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible products	: Alkali. Oxidizer. acid. Moisture.
Incompatible materials	: Heat sources.
Heat and ignition sources	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dimethyl carbonate	e (616-38-6)	
Not applicable		
Cyclohexanone (1	08-94-1)	
ACGIH	Local name	Cyclohexanone
ACGIH	ACGIH TWA (mg/m ³)	50 mg/m³
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	50 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH	Regulatory reference	ACGIH 2020
OSHA	OSHA PEL (TWA) (mg/m ³)	200 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
NIOSH	NIOSH REL (TWA) (mg/m ³)	100 mg/m ³
NIOSH	NIOSH REL (TWA) [ppm]	25 ppm
Titanium dioxide (13463-67-7)	
ACGIH	Local name	Titanium dioxide
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
9/04/2020	EN (English)	3/1

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Titanium dioxide (13463-67-7	7)	
ACGIH	Regulatory reference	ACGIH 2020
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m³
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

None under normal use. In case of repeated or prolonged contact wear gloves. Nitrile rubber

Eye protection:

None under normal use. In case of splashing or aerosol production: protective goggles.

Respiratory protection:

None under normal use

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and ch	nemical properties
Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Various
Odour	: Solvent
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 90 °C
Flash point	: 19 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No oxidizing properties.
9.2. Other information	
VOC content	: 34.4 – 52.3 %

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

Oxidizing agent. Moisture. Alkali. acid.

10.6. Hazardous decomposition products

10.6. Hazardous decomposition products May release flammable gases. Thermal decompo	sition generates : metallic oxides. Carbon monoxide. Carbon dioxide.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
dimethyl carbonate (616-38-6)	
LD50 oral rat	> 5000 mg/kg no rats died during the study
LD50 dermal rabbit	> 2000 mg/kg New Zealand White rabbit; no rabbits died during the study
LC50 Inhalation - Rat	> 5.36 mg/l/4h no rats died during the study
Cyclohexanone (108-94-1)	
ATE (gases)	4500 ppmv/4h
ATE (vapours)	11 mg/l/4h
ATE (dust,mist)	1.5 mg/l/4h
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 6.82 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Cyclohexanone (108-94-1)	
IARC group	3 - Not classifiable
Titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B Inhalation of dust
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eye contact.
Symptoms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.

Symptoms/effects after ingestion : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

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SECTION 12: Ecological information	
	on
12.1. Toxicity	
Ecology - general	: No ecotoxicological data about this product are known.
dimethyl carbonate (616-38-6)	
NOEC (acute)	> 100 mg/l
12.2. Persistence and degradability	
Paint-Riter ™ + Heat Treat (2100F, 2200F)	White, Yellow, Black, Blue
Persistence and degradability	Not established.
dimethyl carbonate (616-38-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	86 % after 28 days
12.3. Bioaccumulative potential	
Paint-Riter ™ + Heat Treat (2100F, 2200F)	White Yellow Black Blue
Bioaccumulative potential	Not established.
dimethyl carbonate (616-38-6)	
Log Pow	0.354 @ 20°C
Bioaccumulative potential	Not potentially bioaccumulable.
12.4. Mobility in soil	
Paint-Riter ™ + Heat Treat (2100F, 2200F)	White Vollow Black Blue
Ecology - soil	Not established.
12.5. Other adverse effects	
Other adverse effects	: Avoid release to the environment.
SECTION 13: Disposal considerati	ione
13.1. Disposal methods	015
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport informatio	<i>i</i> n
Department of Transportation (DOT)	
n accordance with DOT	
Fransport document description	: UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3, II
JN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint
	including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
Fransport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 3 - Flammable liquid
Other information	:No supplementary information available

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Transportation of Dangerous Goods	
Transport document description	: UN 1263 PAINT, 3, II
UN-No. (TDG)	: UN 1263
Proper Shipping Name (Transportation of Dangerous Goods)	: PAINT
Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger
Transport by sea	
Transport document description (IMDG)	: UN 1263 PAINT, 3, II
UN-No. (IMDG)	: 1263
Proper Shipping Name (IMDG)	: PAINT
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 5 L
Air transport	
Transport document description (IATA)	: UN 1263 PAINT, 3, II
UN-No. (IATA)	: 1263
Proper Shipping Name (IATA)	: PAINT
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Cyclohexanone (108-94-1)	
Not subject to reporting requirements of the Unite	d States SARA Section 313
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

dimethyl carbonate (616-38-6)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Cyclohexanone (108-94-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Titanium dioxide (13463-67-7)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
EU-Regulations	
dimethyl carbonate (616-38-6)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Titanium dioxide (13463-67-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
National regulations	
Paint-Riter ™ + Heat Treat (2100F, 2200F) White, Yellow, Black, Blue	
All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL)	

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

dimethyl carbonate (616-38-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Chinese Catalog of Hazardous Chemicals.

Listed on Taiwan National Chemical Inventory

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dimethyl carbonate (616-38-6)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Cyclohexanone (108-94-1)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Chinese Catalog of Hazardous Chemicals.
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Titanium dioxide (13463-67-7)
Listed on IARC (International Agency for Research on Cancer)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory)

15.3. US State regulations

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Paint-Riter ™ + Heat Treat (2100F, 2200F) White

White		
State or local regulations	The titanium dioxide in this product is bound and is not respirable. California Prop. 65 warnings are not required.	
Component	State or local regulations	
Cyclohexanone(108-94-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	
Titanium dioxide(13463-67-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	

Paint-Riter ™ + Heat Treat (2100F, 2200F) Yellow

WARNING: This product can expose you to antimony nickel titanium oxide; Pigment Yellow 53; C.I. 77788, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
antimony nickel titanium oxide; Pigment Yellow 53; C.I. 77788(8007-18-9)	x					
Titanium dioxide(13463-67-7)	X					
Common and		01-1				

Component	State or local regulations
Cyclohexanone(108-94-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Titanium dioxide(13463-67-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

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Paint-Riter ™ + Heat Treat (2100F, 2200F) Black

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Cyclohexanone(108-94-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

Paint-Riter ™ + Heat Treat (2100F, 2200F) Blue

Blue State or local regulations	-	
Component	State or local regulations	
Cyclohexanone(108-94-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	
Titanium dioxide(13463-67-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	

SECTION 16: Other information

Revision date	: 09/04/2020
Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Other information	: None.
Full text of H-statements:	

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)
ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
CLP: Classification, Labelling, Packaging.
DNEL: Derived No Effect Level
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population
NOEC: No Observable Effect Concentration
OSHA: Occupational Safety & Health Administration
PBT: Persistent, Bioaccumulative, Toxic
PNEC: Predicted No Effect Level
STEL: Short Term Exposure Limits
TSCA: Toxic Substances Control Act

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	TWA: Time Weighted Average
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.
Indication of changes:	

Regulatory information.

SDS Prepared by: The Redstone Group, dba SafeBridge Consultants, Inc. 110 Polaris Pkwy Suite 200 Westerville, OH USA 43082 P: +1 (614) 923-7472 www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.