

**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **LIQUID WRENCH WITH CERFLON****Product Code(s)** : L312C, L312/6C**Recommended use of the chemical and restrictions on use**: Lubricant  
Restriction on use: None known .**Chemical family** : Mixture of : Propellant ;Halogenated hydrocarbon ;Petroleum distillates**Manufacturer/Importer/Supplier/Distributor Information:**Blumenthal Brands Integrated, LLC  
600 Radiator Rd.  
Indian Trail, NC 28079**Website:** www.solvewithB.com**Email:** sds@solvewithB.com**Customer Service / Technical** :(704) 821-7643**Emergency phone number** :INFOTRAC (Domestic) (800)-535-5053  
:INFOTRAC (International) (352)-323-3500**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Liquid aerosol. Ether like odour.

**Most important hazards:**

Contents under pressure. Container may explode if heated. Irritating to skin. Inhalation may cause central nervous system depression. Causes damage to organs through prolonged or repeated exposure. Occupational exposure to the substance or mixture may cause adverse effects. Refer also to TOXICOLOGICAL INFORMATION (Section 11). Possible cancer hazard - contains material which may cause cancer. Toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)]. The below WHMIS 2015 classification and labeling information is being provided for informational purposes.

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification :

Gases under pressure  
Skin Irritation - Category 2  
Carcinogenicity - Category 1  
Specific target organ toxicity, single exposure - Category 3 (narcotic effects)  
Specific target organ toxicity, single exposure - Category 3 respiratory tract irritation  
Specific Target Organ Toxicity, Repeated Exposure - Category 2

**Label elements***Hazard pictogram(s)**Signal Word*

DANGER!

*Hazard statement(s)*

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Contains gas under pressure; may explode if heated.  
 Causes skin irritation.  
 May cause cancer.  
 May cause respiratory irritation.  
 May cause drowsiness or dizziness.  
 May cause damage to organs (kidneys) through prolonged or repeated exposure.

*Precautionary statement(s)*

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves/clothing and eye/face protection.  
 Use only outdoors or in a well-ventilated area.  
 Do not breathe mist or vapor.  
 Wash exposed skin thoroughly after handling.

IF exposed or concerned: Get medical advice/attention.  
 If on skin: Wash with plenty of water.  
 If skin irritation occurs: get medical advice/attention.  
 Take off contaminated clothing and wash before re-use.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Get medical advice/attention if you feel unwell.

Store in well-ventilated place.  
 Keep container tightly closed.  
 Store locked up.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

Other hazards which do not result in classification :Toxic fumes may be released during a fire. If product is sprayed directly onto the skin or into the eyes, symptoms of frostbite may be experienced.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration(% by weight)</u>
<b>Tetrachloroethylene (Perchloroethylene)</b>	Perchloroethylene	127-18-4	<b>80.0 - 100.0</b>
<b>Distillates (petroleum), hydrotreated heavy naphthenic</b>	Mineral oil	64742-52-5	<b>10.0 - 30.0</b>
<b>Carbon dioxide</b>	Carbonic anhydride	124-38-9	<b>1.0 - 5.0</b>

The exact concentrations of the above listed chemicals are being withheld as a trade secret. Note: This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)].

**SECTION 4. FIRST-AID MEASURES**

**Description of first aid measures**

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

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**SAFETY DATA SHEET****Most important symptoms and effects, both acute and delayed**

- : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause damage to organs through prolonged or repeated exposure if inhaled. Mild respiratory irritant May cause coughing and breathing difficulties. If product is sprayed directly onto the skin or into the eyes, symptoms of frostbite may be experienced. Symptoms of frostbite may include numbness, prickling and itching. Symptoms of more severe frostbite include a burning sensation, stiffness of the affected area, blistering, tissue death and gangrene.

**Indication of any immediate medical attention and special treatment needed**

- : Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media***Suitable extinguishing media*

- : Dry chemical, foam, carbon dioxide and water fog.

*Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

**Special hazards arising from the substance or mixture / Conditions of flammability**

- : Contains gas under pressure; may explode if heated. Material will float on water and can be re-ignited at the water's surface. This product is contained under pressure, and could explode when exposed to heat and flame.

**Hazardous combustion products**

- : Chlorine ; Phosgene ;Hydrogen chloride gas; Carbon oxides; Sulphur oxides; Nitrogen oxides (NOx); Phosphorus oxides; Polycyclic aromatic hydrocarbons; Unidentified organic compounds.

**Special protective equipment and precautions for firefighters***Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

*Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Shield personnel to protect from venting or rupturing containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.

**Methods and material for containment and cleaning up**

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Keep in properly labelled containers. Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.

**SECTION 7. HANDLING AND STORAGE****Precautions for safe handling**

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- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Keep away from incompatibles. Always replace cap after use. Wash thoroughly after handling.
- Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Keep away from incompatibles.
- Incompatible materials** : Strong oxidizing agents ; Reactive metals; Acids; Bases.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:**

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Tetrachloroethylene (Perchloroethylene)	25 ppm	100 ppm	100 ppm	200 ppm (Ceiling)
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m <sup>3</sup> (As 'Oil mist, mineral') (inhalable)	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Carbon dioxide	5000 ppm	30 000 ppm	5000 ppm (9000 mg/m <sup>3</sup> )	N/Av

#### Exposure controls

##### Ventilation and engineering measures

- : Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

##### Respiratory protection

- : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Refer to CSA Z94.3 or other appropriate standards. Advice should be sought from respiratory protection specialists.

##### Skin protection

- : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Advice should be sought from glove suppliers. Depending on conditions of use, an impervious apron should be worn. Wear sufficient clothing to prevent skin contact.

##### Eye / face protection

- : Wear eye/face protection. Wear as appropriate: Safety glasses with side shields ;Tightly fitting safety goggles .

##### Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

##### General hygiene considerations

- : Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Colourless aerosol spray.
- Odour** : Ether-like.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av

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**SAFETY DATA SHEET****Initial boiling point and boiling range**

: 120°C (248°F)

**Flash point** : N/Ap (Non-flammable.)**Flashpoint (Method)** : N/Ap**Evaporation rate (BuAe = 1)** : 0.95**Flammability (solid, gas)** : Non-flammable aerosol.**Lower flammable limit (% by vol.)**

: N/Ap

**Upper flammable limit (% by vol.)**

: N/Ap

**Oxidizing properties** : None.**Explosive properties** : Aerosols are sensitive to mechanical impact. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.**Vapour pressure** : N/Av**Vapour density** : 5.83**Relative density / Specific gravity**

: 1.34

**Solubility in water** : Insoluble.**Other solubility(ies)** : N/Av**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: N/Av

**Auto-ignition temperature** : N/Av**Decomposition temperature** : N/Av**Viscosity** : N/Av**Volatiles (% by weight)** : 0%**Volatile organic Compounds (VOC's)**

: N/Av

**Absolute pressure of container**

: N/Av

**Flame projection length** : None.**Other physical/chemical comments**

: No additional information.

**SECTION 10. STABILITY AND REACTIVITY****Reactivity** : Not normally reactive.**Chemical stability** : Stable under normal conditions.**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.**Incompatible materials** : Strong oxidizing agents ; Reactive metals; Acids; Bases.**Hazardous decomposition products**

: Hydrochloric acid; Phosgene; Trichloroacetyl chloride; Trichloroacetic acid. Refer to Section 5 for additional 'Hazardous combustion products'.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:****Routes of entry inhalation** : YES**Routes of entry skin & eye** : YES**Routes of entry Ingestion** : YES

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**Routes of exposure skin absorption**

: YES

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

: CNS depression may result from exposure. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

*Sign and symptoms ingestion*

: May cause irritation to the mouth, throat and stomach. May produce mild central nervous system depression characterized by headache, nausea, vertigo, and stupor. Temporary vision impairment (cloudy or blurred vision) is possible. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

*Sign and symptoms skin*

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.

*Sign and symptoms eyes*

: May cause mild eye irritation. Symptoms may include stinging and tearing. If product is sprayed directly into the eyes, could cause freezing of the eye. Symptoms of frostbite may include numbness, prickling and itching.

**Potential Chronic Health Effects**

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Some reports have associated repeated, prolonged overexposure to solvents with permanent central nervous system changes. Prolonged overexposure may cause liver and kidney effects.

**Mutagenicity**

: Not expected to be mutagenic in humans.

**Carcinogenicity**

: This product contains Tetrachloroethylene, which is classified as carcinogenic by IARC (Group 2A) and ACGIH (Category A3).

**Reproductive effects & Teratogenicity**

: Not expected to have other reproductive effects.

**Sensitization to material**

: Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects**

: Central nervous system ;Kidneys

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:  
Specific target organ toxicity, single exposure - Category 3 (narcotic effects)  
May cause drowsiness or dizziness.

Specific target organ toxicity, single exposure - Category 3 (respiratory)  
May cause respiratory irritation.

Specific Target Organ Toxicity, Repeated Exposure - Category 2  
May cause damage to the kidneys through prolonged or repeated exposure.

**Medical conditions aggravated by overexposure**

: None known or reported by the manufacturer.

**Synergistic materials**

: None known or reported by the manufacturer.

**Toxicological data**

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<b>Chemical name</b>	<b>LC<sub>50</sub>(4hr)</b>	<b>LD<sub>50</sub></b>	
	<b>inh. rat</b>	<b>(Oral, rat)</b>	<b>(Rabbit, dermal)</b>
Tetrachloroethylene (Perchloroethylene)	3786 ppm (25.7 mg/L) (vapour) (rat) 2613 ppm (17.7 mg/L) (vapour) (mouse)	2600 mg/kg	> 3245 mg/kg

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Distillates (petroleum), hydrotreated heavy naphthenic	> 5 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
Carbon dioxide	200 000 ppm/2H (141 421 ppm/4H)	N/Ap(gas)	N/Ap(gas)

**Other important toxicological hazards**

- : Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

**SECTION 12. ECOLOGICAL INFORMATION**

- Ecotoxicity** : Toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Tetrachloroethylene.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Tetrachloroethylene (Perchloroethylene)	127-18-4	5 mg/L (Rainbow trout)	N/Av	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 5000 mg/L (Rainbow trout)	N/Av	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Tetrachloroethylene (Perchloroethylene)	127-18-4	8.5 mg/L (Daphnia magna)	0.51 mg/L/28-day	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L (Daphnia magna)	N/Av	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Tetrachloroethylene (Perchloroethylene)	127-18-4	3.64 mg/L/72hr (Green algae)	N/Av	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L/96hr (Green algae)	N/Av	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

**Persistence and degradability**

- : The product itself has not been tested.  
Contains the following chemicals which are considered to be inherently biodegradable: Distillates (petroleum), hydrotreated heavy naphthenic.  
Contains the following chemicals which are not readily biodegradable: Tetrachloroethylene.

- Bioaccumulation potential** : The product itself has not been tested. See the following data for ingredient information.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Tetrachloroethylene (Perchloroethylene) (CAS 127-18-4)	3.4	49 (Bluegill sunfish)
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	> 20	N/Av

**Mobility in soil** : The product itself has not been tested.

**Other Adverse Environmental effects**



: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

**Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

#### SECTION 14. TRANSPORT INFORMATION

<b>Regulatory Information</b>	<b>UN Number</b>	<b>UN proper shipping name</b>	<b>Transport hazard class(es)</b>	<b>Packing Group</b>	<b>Label</b>
TDG	UN1950	AEROSOLS	2.2(6.1)	none	 
<b>TDG Additional information</b>	May be shipped as a LIMITED QUANTITY in containers no larger than 125 mL, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

**Environmental hazards** : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not applicable.

#### SECTION 15 - REGULATORY INFORMATION

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: None.

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product.

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.



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**SAFETY DATA SHEET****International Information:**

Components listed below are present on the following International Inventory list:

<b>Ingredients</b>	<b>CAS #</b>	<b>European EINECs</b>	<b>Australia AICS</b>	<b>Philippines PICCS</b>	<b>Japan ENCS</b>	<b>Korea KECI/KECL</b>	<b>China IECSC</b>	<b>NewZealand IOC</b>
Tetrachloroethylene (Perchloroethylene)	127-18-4	204-825-9	Present	Present	(2)-114	KE-33294	Present	HSR001551
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	Present	Present	(9)-1689	KE-12543	Present	May be used as a single component chemical under an appropriate group standard.
Carbon dioxide	124-38-9	204-696-9	Present	Present	(1)-310; (1)-169	KE-04683	Present	HSR001018

**SECTION 16. OTHER INFORMATION****Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MSHA: Mine Safety and Health Administration  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RTECS: Registry of Toxic Effects of Chemical Substances  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References**

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2019.  
2. International Agency for Research on Cancer Monographs, searched 2019.  
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).  
4. Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists - June 2019 version.  
6. California Proposition 65 List - June 2019 version.  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

**Preparation Date (mm/dd/yyyy)**

: 01/22/2019

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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<p><b><u>Prepared for:</u></b> Blumenthal Brands Integrated, LLC 600 Radiator Rd Indian Trail, NC 28079 Telephone: (704) 821-7643 (Mon. - Fri., 8 AM - 5 PM) Please direct all enquiries to Blumenthal Brands, LLC</p>	
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