


Safety Data Sheet

Section 1. Identification		
Product Identifier	Butyl Cellusolve	Version: 7 Effective Date: 25 January 2021
Other Means Of Identification	None	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use And Restrictions On Use	Industrial Solvent	
Product Family	Solvent	
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST	

Section 2. Hazard Identification

Hazard Classification		
Physical Hazards	Flammable Liquids - Category 4	
Health Hazards	Serious eye damage/eye irritation - Category 2A Skin corrosion/irritation – Category 2 Acute toxicity, Oral – Category 4 Acute toxicity, Dermal – Category 4 Acute toxicity, Inhalation – Category 4	
Signal Word	Warning	
Hazard Statement	Combustible liquid. Causes serious eye irritation. Causes skin irritation. Harmful if swallowed, in contact with skin or if inhaled.	
Precautionary Prevention Statement	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash skin thoroughly after handling. Wear eye and face protection. Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.	

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	Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
Precautionary Response Statement	In case of fire: Use Water fog, foam and CO ₂ to extinguish. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical attention. IF exposed or concerned: get medical attention. F SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor/ physician if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
Precautionary Storage Statement	Store in a well ventilated place locked up.
Precautionary Disposal Statement	Dispose of contents / container in accordance with local regulations.
Other Hazards	None

Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
2-Butoxyethanol	Butyl Cellusolve	111-76-2	100

Section 4. First-Aid Measures

Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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Immediate Medical Attention and Special Treatment	Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
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Section 5. Fire-Fighting Measures

Suitable and Unsuitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Hazardous Combustion Products	Carbon monoxide and dioxide
Specific Hazards Arising From the Product	Combustible material. Containers may explode when heated. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Vapors may form explosive mixtures with air. Keep product and empty container away from heat and sources of ignition. Risk of ignition.
Special Protective Equipment and Precautions for Fire-Fighters	Fire-fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Gloves (neoprene), chemical resistant footwear, coveralls. Evacuate personnel to safe area. Remove all sources of ignition. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapors can accumulate in low area.
Environmental Precautions	Remove all sources of combustion. Dyke area to prevent entry into water courses and sewer system.
Methods for Clean Up	Soak up product on absorbent (universal hydrocarbon), or pump into container for disposal. Wash area with soap and water.

Section 7. Handling and Storage

Precautions for Safe Handling	Handle with care. Remove all sources of ignition.
Conditions for Safe Storage	Store in a cool dry place. Keep container closed when not in use.

Section 8. Exposure Controls / Personal Protection

Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH
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2-Butoxyethanol	97 mg/m ³ Canada. Alberta, Occupational Health and Safety	360 mg/m ³	700 ppm
Exposure Controls	Local exhaust ventilation		
Appropriate Engineering Controls	Provide local exhaust or general room ventilation to minimize exposure to vapours.		
Individual Protective Measures			
Eye / Face Protection	Safety glasses		
Skin Protection	Chemical resistant gloves (neoprene) and long sleeved clothing.		
Respiratory Protection	Air purifying respirator fitted with hydrocarbon vapour cartridges		

Section 9. Physical and Chemical Properties	
Appearance	Clear, colourless liquid
Odour	Mild Odour
Odour Threshold	0.1 – 0.48 ppm
pH	7
Flash Point	70 °C
Boiling Point and Boiling Range	168 – 173 °C
Melting Point and Freezing point	-77 °C
Evaporation Rate	0.06
Flammability (solid, gas)	N/A
Upper and Lower Flammability or Explosive Limits	12.7% @ 135°C 1.1% @ 93°C
Vapour Pressure	0.4 – 0.76 (mmHg @ 20 °C)
Vapour Density	4.1
Relative Density	0.89 – 0.91
Solubility	Completely soluble
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	230 °C / 446 °F
Decomposition Temperature	No data
Viscosity	No data
% Volatile	100%

Section 10. Stability and Reactivity	
Reactivity	Stable

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Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	High temperatures, sparks, open flames and all sources of ignition. Air sensitive. 2 Butoxyethanol can form unstable peroxides on prolonged exposure to heat and air. Avoid direct sunlight, and extended contact with air or oxygen. Oxygen exposure may lead to the formation of explosive peroxides. Do not distill to dryness. Avoid moisture. Material is hygroscopic.
Incompatible Materials	Strong oxidisers. Lewis or mineral acids. Violently reactive with: perchloric acid, sodium hydroxide, potassium hydroxide. Avoid contamination with high concentrations of alkalis at elevated temperatures. Aluminum and its alloys. Copper and its alloys. Bronze, brass, zinc and its alloys. Galvanised steel. Galvanised iron. Attacks some types of rubber, plastics and coatings.
Hazardous Decomposition Products	Heating in air may produce irritating aldehydes, acids and ketones.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-butoxyethanol	400 mg/kg(rat)	99-220 mg/kg (rabbit)	450 ppm (rat, 4h)
Likely Routes of Exposure			
Skin:	Rabbit - Skin irritation - 20 h.		
Eyes:	Rabbit - Eye irritation - 24 h - OECD Test Guideline 405.		
Inhalation:	Toxic. Irritating to the respiratory tract. May cause choking, shortness of breath and chest pains.		
Ingestion:	Toxic. Causes irritation, a burning sensation of the mouth and throat and abdominal pain. Ingestion of very high levels may cause metabolic acidosis – a condition that causes a decrease in pH and bicarbonate concentration in the body fluids.		
Acute Toxicity Estimates (ATE)	No data		
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified		
Aspiration Toxicity	Not classified		
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified		
Skin Corrosion / Irritation	May cause irritation		

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Serious Eye Damage / Irritation	Causes eye damage
Respiratory or Skin Sensitization	Not a sensitizer. (Guinea pig)
Carcinogenicity	3 - Group 3: Not classifiable as to its carcinogenicity to humans.
Reproductive Toxicity	
- Sexual Function and Fertility	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	Not classified
Other Information	Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis.

Section 12. Ecological Information

Ecotoxicity	2 – butoxyethanol – LC50: 1490 mg/l (Lepomis macrochirus – 96 hr static) LC50: 2950 mg/l (Lepomis macrochirus – 96 hr) Harmful to aquatic life at low concentrations
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available. Miscible with water.
Bioaccumulative Potential	No data
Biodegradability	Biodegradation is expected to be significant. Not expected to bioaccumulate.
Mobility in Soil	Will likely be mobile in the environment due to its water solubility.
Other Adverse Effects	None known

Section 13. Disposal Considerations

Disposal Considerations	Dispose of contents / container in accordance with local, provincial and federal regulations.
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Section 14. Transport Information	
UN Number	None
UN Proper Shipping Name	None
Transport Hazard Class(es)	Not regulated
Packaging Group	Not regulated
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-2/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-2/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	July 7, 2011
Date of Latest Revision:	25 January 2021

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Disclaimer

Notice to reader

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