



Safety Data Sheet

Benco B17



1. Identification

Product identifier	Benco B17		
Product code	B17		
Other means of identification	B17. JZW Distribution.		
Recommended use of the chemical and restrictions on use	Industrial paint remover.		
Manufacturer	Benco Sales, Inc. 123 Stout Drive Crossville, TN 38555 Tel. 931-484-9578 Fax 931-484-7614 https://bencosales.com/	Distributor	JZW Distribution 515 chemin Larocque Salaberry-de-Valleyfield, Québec Canada J6T 4C8 Tel. (438) 500-1599 https://www.jzwdistribution.ca/
Emergency phone number	Infotrac 800-535-5053		

2. Hazard identification

Summary	TOXIC AND CORROSIVE. Avoid all contact with the skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.
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WHMIS 2015/GHS/OSHA HCS 2012

	<p>Acute toxicity, oral (Category 4) Acute toxicity, dermal (Category 4) Acute toxicity, inhalation (Category 3) Skin corrosion/irritation (Category 1) Serious eye damage/eye irritation (Category 1) Germ cell mutagenicity (Category 2) Carcinogenicity (Category 2) Specific target organ toxicity, single exposure, Narcotic effects (Category 3) Specific target organ toxicity, repeated exposure (Category 1) Specific target organ toxicity, repeated exposure (Category 2) Health hazards not otherwise classified (HHNOC)</p>
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DANGER

- H331: Toxic if inhaled
- H314: Causes severe skin burns and eye damage
- H3xx: May cause burns and serious injury to the respiratory tract
- H372: Causes damage to organs through prolonged or repeated exposure
- H302 + H312: Harmful if swallowed or in contact with skin
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer
- H341: Suspected of causing genetic defects

H373: May cause damage to organs through prolonged or repeated exposure
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe vapours and spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves, protective clothing, eye protection and/or face protection.
P308+P313: IF exposed or concerned: Get medical attention.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water and soap or take a shower if necessary.
P363: Wash contaminated clothing before reuse.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or a doctor.
P403+P233: Store in a well ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Methylene chloride	75-09-2	45 - 70 %
Phenol	108-95-2	10 - 30 %
Formic acid	64-18-6	10 - 30 %
Hydrofluoric acid	7664-39-3	1 - 5 %

Note: The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

4. First-aid measures

Inhalation	Move person to fresh air. If breathing is difficult, give oxygen by trained personnel. If not breathing, give artificial respiration. If a problem develops or persists, seek medical attention.
Skin contact	IMMEDIATELY! Flush with water for at least 20 minutes while removing contaminated clothing and shoes. Speed is essential. Avoid touching eyes with contaminated body parts. Seek medical attention or contact a Poison Centre immediately. Wash contaminated clothing before reuse.
Eye contact	IMMEDIATELY flush with plenty of water. Speed is essential. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. Flush with water for at least 20 minutes. Seek medical attention immediately. Have an ophthalmologist make an evaluation of eye injury.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately.
Other	Do not use mouth-to-mouth resuscitation unless you use a buccal protective device.
Symptoms	Causes burns to the respiratory tract, gastrointestinal tract, eyes and skin.
Notes to the physician	Treat according to person's condition and specifics of exposure. If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms

and the clinical condition of the patient. For severe exposures, monitor for delayed onset of pulmonary edema.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemicals, water spray, alcohol resistant foam, carbon dioxide (CO ₂).
Specific hazards arising from the chemical	Contact with water will generate heat or splashing.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
Special protective actions for fire-fighters	Use water spray to cool fire-exposed containers. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Do not touch damaged containers or spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent product from entering drains and release to the environment. For a large spill, consult the Department of Environment or the relevant authorities.
Methods and materials for containment and cleaning up	No action shall be taken involving any personal risk or without suitable training. Evacuate unauthorized personnel. Ventilate the area well. Stop leak, if it's possible to do so without risk. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Finish cleaning by rinsing with water contaminated surface. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling	Use only in well ventilated area. Avoid all contact with the skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Wear eye protection, gloves, respiratory protection and other protective clothing that are adapted to the task being performed and the risks involved. Keep only the quantities necessary for the work being performed in the work area. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. After use, wash hands with soap and water. Wash contaminated clothing before reuse.
Conditions for safe storage, including any incompatibilities	Always keep in containers made of the same materials as the supply container. Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Keep away from direct sunlight and heat. Store away from bases and incompatible materials (see section 10).
Storage temperature	10 to 25°C (50 to 77°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Methylene chloride: 2300 ppm. Phenol: 250 ppm. Formic acid: 30 ppm. Hydrofluoric acid: 30 mg/m ³ , value as F (fluoride).		
Methylene chloride	TWA (8h)	25 ppm	BC
		50 ppm	ACGIH , ON
		50 ppm	174 mg/m ³ RSST
Phenol	TWA (8h)	5 ppm	19 mg/m ³ ACGIH , BC, ON, RSST
Formic acid	STEL	10 ppm	ACGIH , BC, ON
		10 ppm	19 mg/m ³ RSST
	TWA (8h)	5 ppm	ACGIH , BC, ON
		5 ppm	9.4 mg/m ³ RSST
Hydrofluoric acid	Ceiling	2 ppm	ACGIH , BC, ON
		3 ppm	2.6 mg/m ³ RSST
	TWA (8h)	0.5 ppm	ACGIH , ON
Appropriate engineering controls	Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation.		
Individual protection measures			
Eye	Wear chemical splash goggles. If risk of contact with eyes or the face wear chemical splash goggles and a face shield.		
Hands	Chemical-resistant, impervious gloves should be worn at all times when handling this chemical product. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.		
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear appropriate chemical impervious clothing. Wear an apron or long-sleeve protective coverall suit.		
Respiratory	Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. In case of insufficient ventilation or in confined or enclosed space, wear any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode.		
Feet	Wear rubber boots as needed.		

9. Physical and chemical properties

Physical state	Liquid	Flammability	Non-flammable
Colour	Light color	Flammability limits	N/Av.
Odour	Characteristic	Flash point	N/Av.
Odour threshold	N/Av.	Auto-ignition temperature	Und.
pH	1 to 2	Sensibility to electrostatic charges	N.Av.

Melting point	N/Av.	Sensibility to sparks and/or friction	N/Av.
Freezing point	N/Av.	Vapour density	2.93 (Air = 1)
Boiling point	40°C (104°F)	Relative density	1.195 kg/L (Water = 1)
Solubility	N/Av.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	< N/Av.	Decomposition temperature	N/Av.
Vapour pressure	N/Av.	Viscosity	N/Av.
Percent Wt. Volatile	>95%	Molecular mass	N/Av.
VOC (g/L)	176 g/L	% Volume Volatile (VOC)	N/Av.
VOC (lb/gal)	N/Av.	% Wt. Volatile (VOC)	N/Av.
N/Av.: Not Available N/Av.: Not Applicable Und.: Undetermined N/E: Not Established			

10. Stability and reactivity

Reactivity	Contact with water will generate heat or splashing.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with incompatible materials. Avoid heat, flame and sparks. Avoid direct sunlight. Never add water directly in this product.
Incompatible materials	Strong oxidants, strong bases, aluminum, zinc, magnesium, alkali metals, strong reducing agents, metal powders, rubber, various plastics, glass.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Numerical measures of toxicity	Methylene chloride	Ingestion	1600 mg/kg	Rat	LD50
		Inhalation	62 mg/l/4h	Rat	LC50
		Skin	>2000 mg/kg	Rat	LD50
	Formic acid	Ingestion	730 mg/kg	Rat	LD50
		Inhalation	7.85 mg/l/4h	Rat	LC50
		Skin	>2000 mg/kg	Rabbit	LD50
	Phenol	Ingestion	317 mg/kg	Rat	LD50
			270 mg/kg	Mouse	LD50
		Inhalation	>1.8 mg/l/4h	Rat	LC50
		Skin	630 mg/kg	Rabbit	LD50
	Hydrofluoric acid	Inhalation	650 ppm/4h	Rat	LC50
			171 ppm/4h	Mouse	LC50
		0.14 mg/l/4h	Rat	LC50	
Likely routes of exposure	Skin, eyes, inhalation, ingestion.				

Delayed, immediate and chronic effects	Eye contact	May cause burns and damages to eyes.
	Skin contact	Harmful in contact with skin. May cause severe skin irritation and burns. The severity of symptoms may vary depending on exposure conditions.
	Inhalation	Toxic if inhaled. May cause irritation to nose, throat and respiratory tract. Can cause damage to nasal and respiratory passages. The severity of symptoms may vary depending on exposure conditions.
	Ingestion	Harmful if swallowed. May cause gastrointestinal irritation and burns to mouth, throat and stomach.
	Respiratory or skin sensitization	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.
	IARC/NTP Classification	Common name IARC NTP Methylene chloride 2A R IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.
	Carcinogenicity	Contains an ingredient probably carcinogenic to humans (Group 2A, IARC). Contains an ingredient which is reasonably anticipated to be a human carcinogen (NTP). The risk of cancer depends on duration and level of exposure.
	Mutagenicity	Suspected of causing genetic defects. Phenol (CAS no 108-95-2) is mutagenic in vitro to mammalian cells. In vivo, the oral tests with mice gave weakly positive or negative results.
	Reproductive toxicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.
	Specific target organ toxicity - single exposure	Central nervous system.
Specific target organ toxicity - repeated exposure	Bones, teeth, nervous system, kidneys, liver, skin, respiratory system.	
Interactive effects	No information available.	
Other information	The oral acute toxicity estimate (ATE) of the mixture was calculated to be greater than 300 mg/kg but lower than 2000 mg/kg. This value is classified according to GHS: Acute toxicity, oral (Category 4). The skin acute toxicity estimates (ATE) of the mixture was calculated to be greater than 1000 mg/kg but lower than 2000 mg/kg. This value is classified according to GHS: Acute toxicity, dermal (Category 4). The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 2 mg/L/4h but lower than 10 mg/L/4h. This value is classified according to GHS: Acute toxicity, inhalation (Category 3).	

12. Ecological information

Ecological toxicity	Fish - Pimephales promelas (fathead minnow)	LC50 193 mg/L; 96 h (CAS no 75-09-2)
	Aquatic Invertebrate - Daphnia magna	EC50 220 mg/L; 48 h (CAS no 75-09-2)
	Aquatic Plant - Algae, Selenastrum capricornutum	EC50 >662 mg/L; 96 h (CAS no 75-09-2)
	Fish - Oncorhynchus mykiss (Rainbow trout)	LC50 8.9 mg/L; 96 h (CAS no 108-95-2) US EPA
	Aquatic Invertebrate - Ceriodaphnia dubia (water flea)	EC50 3.1 mg/L; 48 h (CAS no 108-95-2) US EPA
	Algae - Pseudokirchneriella subcapitata (green algae)	EC50 61.1 mg/L; 96 h (CAS no 108-95-2) US EPA
	Fish - Danio rerio (fresh water)	LC50 130 mg/L; 96 h (CAS no 64-18-6) OECD 203
	Aquatic Invertebrate - Daphnia Magna - Freshwater (static)	EC50 365 mg/L; 48 h (CAS no 64-18-6) OECD 202
	Algae, Pseudokirchneriella subcapitata	EC50 1240 mg/L; 72 h (CAS no 64-18-6) OECD 201
Persistence	Not persistent in environment.	
Degradability		

	The product is a mixture whose ingredients are readily biodegradable (> 60% in 28 days). The term biodegradability, as such, is not applicable to inorganic compounds.
Bioaccumulative potential	The product is a mixture of which ingredients have a low to moderate bioaccumulation potential.
Mobility in soil	The product is a mixture of which some ingredients evaporate very easily from the surface of the soil and have very high mobility in soil.
Other adverse effects	This chemical does not deplete the ozone layer. The observed ecological toxicity presented by this product for the environment was considered a result of pH effects.

13. Disposal considerations

Container 	Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Residues and empty containers must be considered as hazardous waste. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.
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14. Transport information

UN Number	UN 3066
UN Proper Shipping Name	PAINT RELATED MATERIAL
Environmental hazards	Contains an ingredient which is a marine pollutant.
Special precautions for user	Permit required for transportation with proper DANGER placards displayed on vehicle.
TDG - Transportation of Dangerous Goods (Canada & US DOT)	
Transport hazard class(es)	 Class 8
Packing group	II
2020 Emergency Response Guidebook	<u>153</u>
IMO/IMDG - International Maritime Transport	
Classification	UN 3066. PAINT RELATED MATERIAL. Class 8, PG II. Emergency schedules (EmS-No) F-A, S-B
IATA - International Air Transport Association	
Classification	UN 3066. PAINT RELATED MATERIAL. Class 8, PG II.
These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.	

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Methylene chloride	75-09-2		X		X
Phenol	108-95-2		X		X
Formic acid	64-18-6	X	X		X
Hydrofluoric acid	7664-39-3		X		X

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Methylene chloride	75-09-2	X	X	X		X	X			X
Phenol	108-95-2	X	X		X	X	X		X	X
Formic acid	64-18-6	X	X	X		X			X	
Hydrofluoric acid	7664-39-3	X	X	X	X		X	X	X	

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

Common name	CAS	Cancer	Reproductive and Developmental Toxicity
Methylene chloride	75-09-2	X	

Other regulations

HMIS

③ Health
① Flammability
① Reactivity
○ Protective Equipment

NFPA



16. Other information

Date (YYYY-MM-DD)	Benco Sales, Inc. 2023-04-20
Version	03
Other information	<p>REFERENCES:</p> <ul style="list-style-type: none"> - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), https://www.cnesst.gouv.qc.ca/fr - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/

- IPCS INCHEM, Chemical Safety Information from Intergovernmental Organizations, Canadian Centre for Occupational Health and Safety (CCOHS), Copyright International Programme on Chemical Safety (IPCS), <http://www.inchem.org>

- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, <http://www.cdc.gov/niosh/npg/npg.html>

DATE OF FIRST VERSION OF SDS:

2023-03-10.

CHANGES MADE IN THE VERSION 02:

sections 2 and 11.

DATE OF SECOND VERSION OF SDS:

2023-03-22.

CHANGES MADE IN THE VERSION 03:

section 1.

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

OSHA: Occupational Safety and Health Administration (USA)

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

RSST: Règlement sur la santé et la sécurité du travail (Québec)

GHS: Globally Harmonized System

IARC: International Agency for Research on Cancer

IDLH: Immediately Dangerous to Life or Health

STEL: Short Term Exposure Limit (15 min)

TWA: Time Weighted Averages

WHMIS: Workplace Hazardous Materials Information System

To the best of our knowledge, the information contained herein is accurate. However, neither Preventis System, nor the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.