



Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name: B-12 ChemTool® Carburetor & Choke Cleaner (aerosol)
Product Synonym: 1AA-CA11
Product Numbers: 0113C, 0117C, 0120C, 0152
Product Description: Carburetor cleaner/degreaser

Manufacturer: Berryman Products, Inc.
3800 E Randol Mill Rd.
Arlington TX 76011
(800) 433-1704 within USA
(817) 640-2376 outside USA
www.BerrymanProducts.com

Emergency Contact: Infotrac, Inc., (800) 535-5053

Section 2 – Hazards Identification

Emergency Overview: Extremely flammable. Contents under pressure. May cause eye and skin irritation.

Routes of Exposure: Ingestion, inhalation, eye contact, skin contact

Possible Health Hazards

Eyes: May cause moderate to severe irritation of the eyes and result in conjunctivitis and blurred vision.

Skin: May cause mild to moderate irritation of the skin. Prolonged or repeated contact may dry the skin and result in severe irritation, dermatitis, and effects similar to those of chronic overexposure by way of inhalation.

Inhalation: Acute overexposure may result in respiratory tract irritation, headache, dizziness, nausea, vomiting, unconsciousness, and irregular heartbeat. Chronic overexposure or intentional abuse may adversely affect the liver, kidneys, lungs, blood, central nervous system, and hearing and result in death.

Ingestion: Accidental ingestion and subsequent aspiration of even small quantities may cause severe lung damage, aspiration pneumonitis, cyanosis, and death. Ingestion of larger amounts may also include gastrointestinal effects, such as abdominal discomfort, pain, nausea, and vomiting.

Supplemental Information: See "Section 11 – Toxicological Information" for additional information.

Section 3 – Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS Number</u>	<u>Weight</u>
Acetone	67-64-1	85-90%
2-Butoxyethanol	111-76-2	<10%
Toluene	108-88-3	<10%

Section 4 – First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, holding the eyelids apart at regular intervals to ensure complete irrigation. Dispose of contaminated contact lenses.

Skin Contact: Remove contaminated clothing, and wash affected areas of body thoroughly with soap and water. Allow clothing to air dry, and launder before reuse. Seek medical attention if irritation persists.

Inhalation: If breathing difficulties occur, remove source of exposure or move victim to fresh air and administer oxygen, if necessary. If symptoms persist, seek immediate medical attention. If breathing stops, give artificial respiration and seek immediate medical attention.

Ingestion: Do not induce vomiting unless otherwise directed by a medical professional. Dilute stomach contents by drinking 1-2 cups of milk or water. Seek medical attention immediately.

Section 5 – Firefighting Measures

Flash Point and Method: <20°F by Setflash closed-cup tester

Flammability Limits (composite): Lower – 2% Upper – 11%

Suitable Extinguishing Media: All, including water fog, foam, dry chemical, and carbon dioxide

Unsuitable Extinguishing Media: N/A

Protective Equipment: Employ SBCA and full protective gear, including shield, as product is self-pressurized, comprised of extremely flammable, low-boiling solvents, and may vent, rupture, or explode violently at elevated temperatures.

Specific Procedures: Product is self-pressurized and may present explosion hazards at elevated temperatures.

Remove product from area if possible without risk of injury. Use water spray to cool containers.

Section 6 – Accidental Release Measures

General Remediation Overview: Extremely flammable! Avoid all sources of ignition and thoroughly ventilate area!

Personal Precautions: Avoid all sources of ignition and unnecessary contact with product.

Environmental Precautions: Prevent further loss of product if safely possible.

Methods for Containment: Use booms or other barriers as necessary to prevent further loss.

Methods for Cleaning Up: For small spills, quickly mop up or absorb with inert material, such as corn cob, cellulose, or vermiculite. For large spills, pump or transfer material into containers for recovery and use absorbent material for collection of unrecoverable product. Ensure thorough ventilation of the local area to prevent the accumulation of flammable vapors.

Section 7 – Handling and Storage

Handling: Avoid contact with skin and eyes. Wash hands thoroughly after use.

Storage: Store in cool, dry location. Do not leave in direct sunlight inside of vehicle.

Section 8 – Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>Exposure Limit</u>	<u>Source</u>
Acetone	500 ppm	ACGIH
2-Butoxyethanol	20 ppm	OSHA
Toluene	20 ppm	ACGIH

Engineering Controls: Use outside with adequate ventilation to minimize exposure.

Respiratory Protection: If necessary, use respiratory protection sufficient to reduce exposure to permissible limits.

Eye Protection: Use of safety glasses with wrap-around lens or goggles is recommended.

Skin Protection: Employment of impermeable gloves is recommended.

Other Protection: For industrial settings, combination safety shower with eye wash station is recommended.

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, colorless to very light yellow

Odor: Mild, aromatic

Freezing Point: <-40°F (approximate)

Boiling Range: 133-340°F (approximate)

Flash Point: <20°F by Setflash closed-cup tester

Specific Gravity: 0.79-0.81 at 68°F

pH: N/A, as supplied

Solubility in Water: Infinite

Volatile Content: 100%

Evaporation Rate: faster than water

Vapor Density: Heavier than air

Vapor Pressure: 80-100 PSI at 68°F

VOC Content: 10% by weight (80 g/L) (by EPA Method 24)

VOC Composite Partial Pressure, PP_c: 1.9 mm Hg at 68°F (as calculated by SCAQMD Rule 1171(B)(57))

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions

Incompatible Materials: Strong acids, oxidizers

Hazardous Decomposition Products: None under normal conditions of use. Thermal decomposition may yield hydrocarbons, carbon monoxide, carbon dioxide, and organic oxygenates.

Possibility of Hazardous Reactions: Negligible

Section 11 – Toxicological Information

General Information: This formulated product has not been evaluated for toxicological properties. Acute toxicity is anticipated to be fairly low. Chronic toxicity is expected to be negligible, but intentional abuse may be fatal.

Acute Toxicity: No specific data available on blend

Chronic Toxicity: No specific data available on blend

Carcinogenicity: N/A

Teratogenicity: Case studies suggest maternal abuse of toluene may increase the chances of birth defects.

Mutagenicity: N/A

Supplemental Information: See "Section 2 – Hazards Identification" of this MSDS for additional information.

Section 12 – Ecological Information

Ecotoxicity: This product is not anticipated to be ecologically significant in small amounts.

Persistence and Degradability: Not expected to be persistent. All primary ingredients have environmentally favorable biodegradation profiles.

Bioaccumulation Potential: None

Section 13 – Disposal Considerations

Disposal Instructions: None specific. Dispose of waste in accordance with applicable regulations.

Section 14 – Transportation Information

US Department of Transportation (DOT): When shipped by ground, this product is eligible for a "Limited Quantity" exception per §49 CFR 173.306. Otherwise, it should bear the following shipping description:

UN1950, Aerosols, 2.1

International Air Transportation Association (IATA): When shipped by air, this product may be eligible for a "Limited Quantity" exception. Otherwise, it should bear the following shipping description:

UN1950, Aerosols, 2.1

Section 15 – Regulatory Information

FEDERAL CONSIDERATIONS

SARA Title III, Section 302 – Extremely Hazardous Substances: Neither this product nor any of its components appear on the list of extremely hazardous substances (EHS) found in §40 CFR 355 Appendices A and B and are not subject to the emergency planning (EPCRA) requirements of §40 CFR 355.30 or the reportable quantity (RQ) and threshold planning quantity (TPQ) requirements of §40 CFR 355 Appendices A and B.

SARA Title III, Section 304 – Hazardous Substances: This product contains the following component found in the list of hazardous substances of §40 CFR Table 302.4: Toluene (CAS # 108-88-3)

SARA Title III, Sections 311/312 – Hazard Classes: This product contains one or more ingredients that are classified into the following hazard categories outlined in §40 CFR 370.40: fire; sudden release of pressure; immediate (acute) health; delayed (chronic) health

SARA Title III, Section 313 – Toxic Chemicals: This product contains the following chemicals listed in the table of §40 CFR 372.85 exceeding the *de minimis* concentration reporting requirements of §40 CFR 372.38: Certain Glycol Ethers (CAS # 111-76-2); Toluene (CAS # 108-88-3)

Section 15 – Regulatory Information (continued)

FEDERAL CONSIDERATIONS (continued)

Clean Air Act, Section 183(e) – Consumer and Commercial Products: This product complies with the National Volatile Organic Compound Emission Standards for Consumer Products regulations found in §70 FR 69759.

Toxic Substances Control Act (TSCA): All chemicals known to be present in this product are either listed on the TSCA inventory or are not required to be per §15 USC 2601 et seq.

Occupation Safety and Health Administration (OSHA): This material safety data sheet is provided for compliance with applicable regulations of the Hazard Communication Standard (HCS) found in §29 CFR 1910.1200(g). Federal law requires persons receiving this document to study it carefully and become aware of the hazards of this product. Notify all employees, visitors, agents, and contractors of the information on this sheet.

Consumer Product Safety Commission (CPSC): This product is regulated under the Federal Hazardous Substances Act, is subject to the labeling requirements of 16 CFR 1500, and must include the following cautionary statements: Danger. Extremely flammable. Eye and skin irritant. Contents under pressure. Keep out of the reach of children.

REGIONAL CONSIDERATIONS

Lake Michigan Air Directors Consortium (LADCO): Complies with category VOC requirement

Ozone Transport Commission (OTC): Complies with category VOC requirement

STATE CONSIDERATIONS

California: This product is compliant with the category VOC requirements of §94509 of Subchapter 8.5 Article 2 of the Air Resource Board's "Regulation for Reducing Emissions from Consumer Products."

This product is subject to the labeling requirements of "Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986" ("Prop 65") and must product bear the cautionary statement "WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm."

New Jersey: For Right-To-Know ("RTK") labeling requirements, refer to "Section 3 – Composition / Information on Ingredients."

Section 16 – Other Information

Hazardous Materials Identification System (HMIS)

HMIS Hazard Rating	HMIS Hazard Index
1	Least - 0
3	Slight - 1
0	Moderate - 2
X	High - 3
X	Extreme - 4

Index of Abbreviations

ACGIH – American Council of Governmental and Industrial Hygienists

N/A – not applicable

NE – not established

NIOSH – National Institute for Occupational Safety and Health

PEL – Permissible Exposure Limit (as required by OSHA)

TLV – Threshold Limit Value (as recommended by ACGIH)

Date of Issuance: 8-30-2012

Date of Previous Revision: 8-25-2009

Primary Revision Change(s): updated "Section 5 – Firefighting Measures," "Section 8 – Exposure Controls / Personal Protection," and "Section 14 – Transportation Information"

Applicability: This document applies to part numbers 0113C, 0117C, 0120C, and 0152 manufactured after 12-31-2010.

Prepared By: Dan Nowlan

Legal Disclaimer: The information contained in this document is, to the best of Berryman Products, Inc.'s knowledge, complete and accurate but is not warranted. All materials may present unknown hazards and should be used with caution. It is the responsibility of the user to evaluate the information in a prudent manner and to use it in a manner consistent with its intended purpose. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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Section 1 - Product Identification

Manufacturer: Renu Cleaners LLC 572 Malloy Ct. Corona, CA 92880 800-721-5572
 Product Code: FR-146
 Product Name: Renu Cut 1.0
 Product Class:
 Date Prepared: 02-01-2010

Section 2 - Hazardous Ingredients

Ingredient	CAS Number	%	Occupational Exposure Limits			Vapor Pressure Mm Hg
			PEL	TLV	TWA	
Aliphatic petroleum distillates	64742-88-7		100 ppm	100 ppm		
Calcined Kaolin Clay	66402-68-4		10mg/m ³	10 mg/m ³		

Section 3 - Physical Data

Solubility in Water Soluble	% Volatile By Weight <6	Specific Gravity (water = 1) <1	Evaporation Rate <1
Boiling Point 212 deg F	Vapor Pressure Negligible	Vapor Density No data	Melting Or Freezing Point
Appearance	Odor	pH 7.5	Viscosity

Section 4 - Fire And Explosion Hazard Data

Flash Point 210 deg F	Auto Ignition Temp.	Lower Explosion Limit No data	Upper Explosion Limit No data
Extinguishing Media <input checked="" type="checkbox"/> Foam <input checked="" type="checkbox"/> CO2 <input checked="" type="checkbox"/> Dry Chemical <input checked="" type="checkbox"/> Water Fog <input type="checkbox"/> Other			
Fire Fighting Procedures Use self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.			
Unusual Fire and Explosion Hazards			

Section 5 - Health Hazard Data

Effects of Overexposure

Eyes: May cause mild irritation, stinging, tearing and redness.
 Skin: May cause mild irritation with prolonged contact.
 Inhalation: May cause irritation of the respiratory tract.
 Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts can enter the lungs during swallowing or vomiting can result in lung inflammation and other lung injury.

Chronic Effects:

Primary Routes of Entry:

Emergency and First Aid Procedures

Eyes: Flush eyes with water for 15 minutes. Wash under the eyelids. If irritation persists, get medical assistance.
 Skin: Wash with soap and water. If irritation persists, get medical assistance.
 Inhalation: Move away from source of exposure. If breathing difficulties develop, get medical assistance.
 Ingestion: Do not induce vomiting. Aspiration hazard. Do not give anything by mouth. Get immediate medical assistance.

Section 6 - Reactivity Data

Stability <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid
Hazardous Polymerization <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions To Avoid
Hazardous Decomposition Byproducts	

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Materials to Avoid

Strong oxidizing agents.

Section 7 - Precautions For Safe Handling And Use

Steps to be Taken in Case Material is Released or Spilled:
Small Spills: Absorb liquid on vermiculite, floor absorbent or other absorbent material.
Large Spills: Stop spill at source, dike area of spill to prevent spreading, pump liquid into salvage tank. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

Disposal: Dispose of in accordance with all applicable local, state and federal regulations.

Handling and Storing: Store in closed containers in a cool, dry, well-ventilated area. Protect containers from physical damage. Keep empty containers closed and do not use to mix or store any other materials. Empty containers retain material residue. Observe all hazard precautions contained in this Material Safety Data Sheet.

Other Precautions: Avoid conditions which generate dust levels in excess of exposure limits. Wear protective equipment. Avoid eye contact. Wash thoroughly after handling. Launder clothing before reuse.

Section 8 - Special Protection Information

Respiratory Protection: Use an approved personal respirator for control of fine mineral dusts.
Ventilation: General or mechanical ventilation to maintain a dust-free work place.
Local Exhaust:
Mechanical:
Special:
Other:
Protective Gloves: None normally required.
Eye Protection: Chemical splash goggles.
Other Protective Clothing or Equipment: Eye wash should be readily available.
Work/Hygenic Practices:

Section 9 - Special Precautions

Precautionary Labeling:
Handling and Storage:

Section 10 - Additional Information

Section 11 - HMIS Health Hazard Rating

0 - Insignificant	1 - Slight	2 - Moderate	3 - High	4 - Extreme
Health <u>1</u>	Fire <u>0</u>	Reactivity <u>0</u>	Special <u>0</u>	

Notice: All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

ND - No Data Available

NA - Not Applicable