MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHAMPION® MSDS 4525DC/ANC – LOW VOC

Non-Chlorinated Brake Cleaner (CA Compliant)

Company Identification
Champion Brands, L.L.C., 1001 Golden Drive, Clinton, MO 64735
PHONE: 800-821-5693 WEBSITE: www.championbrands.com

CAS Registry Number Not Applicable
Synonyms None
Generic/Chemical Name Mixture
Product Type Solvent Blend
Preparation Date 11/21/2011
Transportation Emergency Response
CHEMTREC: (800) 424-9300
Product Information
Product Information and MSDS Requests: (800) 821-5693 and www.championbrands.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT (%)	OSHA		ACGIH	
			TWA (ppm)	STEL	TWA (ppm)	STEL
Acetone	67-64-1	1-100	1000	*NDA	500	*NDA
Heptane	142-82-5	<1%	500	*NDA	400	*NDA
*No data available						

3. HAZARD IDENTIFICATION

HMIS RATINGS: Health: 1 Flammability: 3 Reactivity: 0

EMERGENCY OVERVIEW: Flammable. Target central nervous system impairment. Eye and upper respiratory tract irritation; hematological effects. Ingestion may pose serious aspiration hazard!

IMMEDIATE HEALTH EFFECTS
Eye: May cause short-term irritation of the eyes
Skin: May cause short-term irritation of the skin
Ingestion: Aspiration hazard! May cause central nervous system impairment and irritation
Inhalation: May cause short-term irritation of the respiratory tract. May cause central nervous system despression, nausea, dizziness, faintness, shortness of breath, unconsciousness; very serious exposure events, may lead to coma or death

4. FIRST AID MEASURES

Eye: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.
Skin: Wash the area thoroughly with soap and water. If skin is left excessively dry, use a moisturizing balm or lotion. If symptoms are persistent, seek medical advice.

Ingestion: DO NOT INDUCE VOMITING – Serious aspiration hazard! Seek medical attention immediately
Inhalation: If symptoms are evident, remove victim to fresh air. Apply artificial respiration if the patient is not breathing. If breathing is difficult, give oxygen. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

NFPA RATINGS: Health: 1 Flammability: 3 Reactivity: 0

FLAMMABLE PROPERTIES:
Flashpoint: -20°C
Auto-ignition: NDA
Flammability Classification: Flammable Liquid IB

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical powder, or alcohol resistant foam

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: Wear protective clothing and equipment suitable for the surrounding fire including helmet, facemask, and self-contained breathing apparatus. Vapors may form explosive mixtures with air. Flash fires are likely if vapors travel to a source of ignition.

Combustion Products: Dependent on conditions of combustion. May emit carbon dioxide, carbon monoxide; may generate polyarmotic hydrocarbons and soot under certain conditions.

6. ACCIDENTAL RELEASE INFORMATION

Protective Measures: Eliminate all sources of ignition or strong oxidizers. Ventilate the area of spill if possible. Keep unnecessary personnel away. For large spills use gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respirator protection. Vapors may travel relatively long distances along the ground and cause flash fires if ignited.

Spill Management: Stop the source of discharge if you can do so safely. Ventilate the area of the leak or spill. Prevent discharge into water systems. Use only non-sparking tools to collect and containerize spilled materials. Absorb spilled material with suitable non-flammable inert material such as clay, vermiculate, or diatomaceous earth.

7. HANDLING AND STORAGE

Precautionary Measures: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate state electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling equipment).
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.
General Storage Information: DO NOT USE OR STORE near heat, sparks or open flames. STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

8. EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If

engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Special note: Do not use in breathing air apparatus or medical equipment.

ENGINEERING CONTROLS:
Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT
Eye/Face Protection: Splash goggles
Skin Protection: Rubber gloves: butyl rubber, nitrile rubber, or
Respiratory Protection: Vapor respirator where ventilation is inadequate to limit exposure to OSHA or ACGIH guidelines. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Occupational Exposure Limits:

Component	OSHA		ACGIH	
	TWA (ppm)	STEL	TWA (ppm)	STEL
Acetone (CAS# 67-64-1)	1000	NDA	500	NDA
Heptane (CAS# 142-82-5)	500	NDA	400	NDA

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Product Code	**4525DC/ANC**
Appearance	Clear liquid
Odor	Sweet
pH (1% soln/H_2O)	NDA
Vapor Density (acetone)	2.0 (Air = 1)
Boiling Points (acetone)	56°C @1013.25hPa
Vapor Pressure (acetone)	233 hPa @ 20°C
Melting Point (acetone)	-94.7°C
Flash Point (see section 5)	
Flammability Properties (see section 5)	
Solubility	Miscible with water
Specific Gravity (acetone)	0.7854
Evaporation Rate	NDA
Octanol/Water partition (acetone)	-0.24
Auto-ignition temperature (acetone)	465°C
Decomposition Temperature	NDA

10. STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable at ambient temperatures 21°C (70°F)
Conditions to Avoid: Flames, sparks, electrostatic discharge, heat and other ignition sources, moisture.
Incompatibility With Other Materials: Reacts with strong acids, bases, and oxidizing agents.
Hazardous Decomposition Products: Evolved carbon oxides and may generate small hydrocarbons and polyaromatic heterocycles
Hazardous Polymerization: This product will not undergo polymerization

11. TOXILOGICAL INFORMATION

Acute Effects
Component Analysis LD(C)50

Acetone (67-64-1)
Oral LD50: 5800mg/kg (Rat)

Heptane (142-82-5)
Inhalation LD50: 103g/m3 4h (Rat)
Oral LD50: 5000mg/kg (Mouse)
Dermal LD50: 3000mg/kg (Rabbit)

Chronic Effects
Component Analysis

Acetone (67-64-1)

Carcinogenicity:	ACGIH A4 – Not classifiable as a human carcinogen
Neurotoxicity:	Acetone is a central nervous system target
Mutagenicity:	NDA
Reproductive:	NDA
Developmental:	NDA
Target Organs:	Acetone can target respiratory system, eyes, central nervous system, kidneys and hemtology

Heptane (142-82-5)

Carcinogenicity:	Not classifiable for human or animal by USEPA
Mutagenicity:	NDA
Teratogenicity:	NDA
Developmental:	NDA
Target Organs:	Central nervous system impairment, upper respiratory tract irritation

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Acetone (67-64-1)

96h LC50 Oncorhynchus mykiss:	5540mg/L (static)
96h LC50 Pimephales promelas:	6210mg/L [flow through]
96h LC50 Lepomis macrochirus:	8300 mg/L (static)
15min EC50 Photobacterium phosphoreum:	14,500 mg/L
48h EC50 water flea:	0.0039 mg/L
48h EC50 water flea:	12,700 mg/L (static)
48h EC50 Daphnia magna:	12,600 mg/L

Heptane (142-82-5)

96h Cichlid fish:	375 mg/L
24h EC50 Daphnia magna:	>10 mg/L

13. DISPOSAL INFORMATION

Dispose of in accordance with local, state, and federal regulations

14. TRANSPORTATION INFORMATION

DOT Shipping Name:	Flammable Liquids, n.o.s. (contains acetone)
DOT Hazard Class:	3
DOT Identification Number:	UN1993
DOT Packing Group:	II
Label:	Flammable Liquid

15. REGULATORY INFORMATION

SARA 311/312 CATEGORIES:	(Acute) Health Effects:	YES
	Delayed (Chronic) Health Effects:	NO
	Fire Hazard:	YES
	Release of Pressure Hazard:	NO
	Reactivity Hazard:	NO

CERCLA: Acetone (67-64-1)
5000lb final RQ; 2270kg final RQ

RCRA: Acetone (67-64-1): U002 (Ignitable waste)

Right to Know Lists:
The following chemicals are listed on the right to know lists for the corresponding states

Acetone (67-64-1):	California, New Jersey, Pennsylvania, Minnesota, Massachusetts
Heptane (142-82-5):	California, New Jersey, Pennsylvania, Minnesota, Massachusetts

CALIFORNIA PROP 65:
None of the chemicals in this product are listed as having significant risk

16. DISCLAIMER

NFPA RATINGS: Health: 1 Flammability: 3 Reactivity: 0
HMIS RATINGS: Health: 1 Flammability: 3 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).
REVISION STATEMENT: Revision updates many sections and the MSDS should be read in its entirety.
ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	-	Threshold Limit Value	TWA	-	Time Weighted Average
STEL	-	Short-term Exposure Limit	PEL	-	Permissible Exposure Limit
CHA	-	Champion LLC	CAS	-	Chemical Abstract Service Number
NDA	-	No Data Available	NA	-	Not Applicable
<=	-	Less Than or Equal To	>=	-	Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by **COMPANY NAME & ADDRESS**