



Issue date 12-Aug-2015

Safety Data Sheet

Version 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product name CHAMPION'S CHOICE D-LIMONENE DEGREASER
Chemical name 7-8109-1

Other means of identification

Product code FG 438-5350-5
Synonyms Degreaser

Recommended use of the chemical and restrictions on use

Recommended Use Removes grease, tar, oil, grime, adhesives, stickers, gum, printers ink, wet paint, most graffiti, and other oil-based contaminants.

Uses advised against Do not use on asphalt tile. Test on small area before using on plexiglass and plastic surfaces.

Details of the supplier of the safety data sheet

Supplier Address	Manufacturer Address
Chase Products Co.	Chase Products Co.
2727 Gardner Road	2727 Gardner Road
Broadview, IL 60155	Broadview, IL 60155
708-273-1121	708-273-1121

Emergency Telephone Number

Company Phone Number 708-865-1000
24 Hour Emergency Phone Number 1-800-255-3924
Emergency telephone ChemTel 1-800-255-3924

2. Hazards Identification

Classification

Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Gases Under Pressure	Compressed Gas

Label Elements

EMERGENCY OVERVIEW

Warning

hazard statements

CAUSES SKIN IRRITATION
May cause an allergic skin reaction
Contains gas under pressure; may explode if heated



Appearance Hazy liquid

Physical State Aerosol

Odor Citrus odor

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves, protective clothing, eye protection and face protection.
 Avoid breathing fumes, mist, vapors or spray.
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment: See additional cautionary statements on this label.
 IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash before reuse
 If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

- Toxic to aquatic life with long lasting effects
- 11.7% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Common Name Spot and stain remover.
Synonyms Degreaser.
Chemical Family MIXTURES.
Formula 7-8109-1
Chemical nature Aqueous solution of surfactants and solvents.

Chemical name	CAS No	weight-%	Trade secret
Water	7732-18-5	75-80	*
ME80	NONE	5-10	WPS1182959
D-Limonene	5989-27-5	5-10	*
2-Butoxyethanol	111-76-2	1-5	*
Nitrogen	7727-37-9	<1	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye Contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

inhalation If overcome by vapor, move person to fresh air. If person is not breathing, call 911 or an ambulance, then provide artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

INGESTION Ingestion from an aerosol product is unlikely to occur. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

Symptoms Acute: Prolonged inhalation of concentrated vapor or mist may cause headaches, dizziness and nausea. Prolonged and repeated contact with skin may cause irritation and reddening. Contact with eyes causes irritation. Over inhalation of vapor or mist may cause anesthetic effects, headaches, dizziness and nausea. Chronic: 2-butoxyethanol may cause hemolysis of the blood cells leading to possible liver and kidney damage. D-limonene may cause allergic skin reactions .

Indication of any immediate medical attention and special treatment needed

Note to physicians None needed.

5. Fire-fighting measures

Suitable extinguishing media
Dry chemical, CO2 or water spray.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

Hazardous combustion products Thermal decomposition may release carbon monoxide and carbon dioxide.

Explosion data
Sensitivity to Mechanical Impact Contents under pressure, keep away from heat and open flame.
Sensitivity to Static Discharge Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use in a well-ventilated area ONLY. **WHEN USING INDOORS, KEEP WINDOWS AND DOORS OPEN UNTIL FUMES DISSIPATE.**

For emergency responders Remove all sources of ignition.

Environmental Precautions

Environmental Precautions Contains d-limonene which is consider as marine pollutant by DOT. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

Methods for cleaning up Clean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Do not deliberately inhale vapor or spray mist. Avoid getting spray into eyes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry place away from heat and open flame. Keep out of reach of children. **AEROSOL STORAGE LEVEL I (NFPA-30B)** .

Incompatible Materials Avoid heat, open flame and contact with strong oxidizers.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines See occupational exposure limits listed below.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

Engineering controls Use with adequate general or local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face Protection Conventional eyeglasses to guard against splashing.

Skin and Body Protection Rubber, vinyl or household type gloves required.

Respiratory protection Use in a well-ventilated area ONLY. None required if used in a well-ventilated area. Follow label directions for correct use of the product..

General hygiene considerations Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Aerosol	Odor	Citrus odor
Appearance	Hazy liquid	Odor threshold	No information available
Color	Hazy		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	10.45	No information available
Melting point/freezing point	Not applicable	No information available
Boiling point/boiling range	Water 212 °F/100 °C	No information available
Flash Point	Not applicable. This is an aerosol product for which Flame Projection is 0 in. with 0 in flashback. This product is similar in composition to another product which was tested for Enclosed Space Ignition Test. Since that product is not a flammable aerosol, as defined on 29CFR 1910.122 appendix B3, this product is also considered as non-flammable.	No information available
Evaporation Rate	Faster than butyl acetate	No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
Upper flammability limits	Not available	
Lower Flammability Limit	Not available	

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Vapor pressure		No information available
Vapor Density		No information available
Relative Density	0.990 concentrate	No information available
Water solubility		Soluble in water
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition Temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC content (%)	10.0%
Density	8.25 lb/gal
Bulk Density	No information available

10. Stability and Reactivity

Reactivity

Not applicable Not applicable

Chemical stability

Stable.

Possibility of hazardous reactions

Temperatures above 130 °F may cause cans to burst with force.

hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Temperatures above 122 °F (50 °C).

Incompatible Materials

Avoid heat, open flame and contact with strong oxidizers.

Hazardous decomposition products

Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

11. Toxicological Information

Information on likely routes of exposure

Product Information	Primary routes of entry: Eye contact, skin contact, inhalation, ingestion (possible, but consider unlikely).
inhalation	Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.
Eye Contact	Can cause irritation after contact with eyes.
Skin contact	May cause skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. D-limonene may cause allergic skin reactions. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts.
INGESTION	This is an aerosol product, ingestion is unlikely to occur. 2-Butoxyethanol may cause red blood cell hemolysis and possible liver and kidney damage.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-

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D-Limonene 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h

Information on toxicological effects

Symptoms Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. D-limonene may cause allergic skin reactions. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts.

Serious eye damage/eye irritation Irritating to eyes.

corrosivity Not applicable.

sensitization May cause sensitization of susceptible persons.

Germ Cell Mutagenicity No information available.

carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Exposure to d-limonene has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

Chemical name	ACGIH	IARC	NTP	OSHA
D-Limonene 5989-27-5		Group 2A Group 3		X

Reproductive Toxicity D-limonene has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration Hazard Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 11.7% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 14489 mg/kg

ATEmix (dermal) 25745 mg/kg

ATEmix (inhalation-gas) 30800 mg/l

ATEmix (inhalation-dust/mist) 66 mg/l

ATEmix (inhalation-vapor) 19800 mg/l

12. Ecological Information

This product contains a chemical which is listed as a marine pollutant according to DOT.

ecotoxicity

11.7% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
D-Limonene 5989-27-5		0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		
2-Butoxyethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis		1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L

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		macrochirus mg/L LC50		EC50
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Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical name	Partition coefficient
2-Butoxyethanol 111-76-2	0.81

Other adverse effects

No information available

13. Disposal Considerations

Waste treatment methods

Disposal of wastes

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

Contaminated packaging

Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

Chemical name	California Hazardous Waste Status
D-Limonene 5989-27-5	Toxic

14. Transport Information

DOT

UN/ID no

Limited quantity (LQ) Degreaser

Proper Shipping Name

UN1950

Hazard Class

Limited quantity (LQ)

Marine pollutant

2.2

This product contains a chemical which is listed as a marine pollutant according to DOT.

15. Regulatory information

International Inventories

TSCA

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

DSL

All ingredients are listed or are excluded from listing on the DSL.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in all SDSs that are copied and

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distributed for this material.

Chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5			X
2-Butoxyethanol 111-76-2	X	X	X
Nitrogen 7727-37-9	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

NFPA	Health Hazards 2	Flammability 1	Instability 1	Physical and chemical properties Not applicable Personal Protection B - Eyes and hands protection
HMIS	Health Hazards 2	Flammability 2	Physical Hazards 1	

Prepared by Regulatory Department
 Issue date 12-Aug-2015
 Revision note
 This SDS supersedes a previous MSDS dated August 31, 2010.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet