

Safety Data Sheet

Issue date 15-May-2017 Version 2

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

Product Identifier

Product name CHASE-MM INSECT REPELLENT FORMULA 2

Chemical name 7-7778-2

Other means of identification

Product code FG 419-2187-1 Synonyms Insect Repellent Registration number(s) 498-154

Recommended use of the chemical and restrictions on use

Recommended UseTo repel mosquitoes, chiggers, ticks, deer flies, stable flies, black flies, gnats and fleas on

exposed skin surfaces.

Uses advised against See "APPLICATION INSTRUCTIONS" on label.

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressChase Products Co.Chase Products Co.2727 Gardner Road2727 Gardner RoadBroadview, IL 60155Broadview, IL 60155708-273-1121708-273-1121

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

Serious eye damage/eye irritation	Category 2A
FLAMMABLE AEROSOLS	Category 1
Gases Under Pressure	liquefied gas

Label Elements

EMERGENCY OVERVIEW

DANGER

hazard statements

Causes serious eye irritation

EXTREMELY FLAMMABLE AEROSOL

Contains gas under pressure; may explode if heated



Appearance Clear, yellowish liquid.

Physical State Aerosol

Odor Characteristic odor of DEET.

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye protection.

Keep away from heat, sparks, open flames and hot surfaces. — No smoking

Do not spray on an open flame or other ignition source Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place Do not expose to temperatures exceeding 122 °F (50 °C)

Hazards not otherwise classified (HNOC)

Other Information

- Toxic to aquatic life with long lasting effects
- · Harmful to aquatic life

21.14% of this mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on Ingredients

Synonyms Insect Repellent.
Chemical Family MIXTURES.
Formula 7-7778-2

Chemical nature Mixture of organic compounds.

Chemical name	CAS No	weight-%	Trade secret
Ethyl alcohol	64-17-5	50-55	*
Propylene Glycol USP	57-55-6	15-20	*
N,N-Diethyl-m-toluamide	134-62-3	15.0	*
Propane	74-98-6	5-10	*
N-Butane	106-97-8	1-5	*

^{*} 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 In case of skin reaction, wash skin with soap and water and consult a physician.

Inhalation If overcome by vapor, move person to fresh air.

Ingestion Ingestion from an aerosol product is unlikely to occur.

Most important symptoms and effects, both acute and delayed

Symptoms Irritating to the eyes on contact. May cause stinging, redness and swelling of the eyes.

Prolonged contact with skin may cause allergic reactions on some individuals.

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 Use water spray or fog; do not use straight streams.

Specific hazards arising from the chemical

Containers are under pressure. Temperatures above 130 °F may cause cans to burst.

Hazardous combustion products Thermal decomposition may yield gases like 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

Use personal protective equipment as required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions CONTENTS UNDER PRESSURE. Do not puncture or incinerate cans.

Other Information Keep out of reach of children.

Environmental precautions

Environmental precautions 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 upClean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Avoid getting spray into eyes. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry place away from heat and open flame. Avoid storing at below-freezing

temperatures. AEROSOL STORAGE LEVEL II (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

Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	3.
Propane	: See Appendix F: Minimal	TWA: 1000 ppm	IDLH: 2100 ppm
74-98-6	Oxygen Content	TWA: 1800 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1800 mg/m ³
		(vacated) TWA: 1800 mg/m ³	
N-Butane	STEL: 1000 ppm	(vacated) TWA: 800 ppm	TWA: 800 ppm
106-97-8		(vacated) TWA: 1900 mg/m ³	TWA: 1900 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 None required.

Respiratory protection For outdoor use only. Do not spray in enclosed areas.

Wash hands thoroughly after handling. General hygiene considerations

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Aerosol

Appearance Clear, yellowish liquid. Odor Characteristic odor of

DEET.

Color clear Odor threshold No information available

Values Remarks • Method Property Hq NA Solvent-based product. Melting point/freezing point NA No information available Boiling point/boiling range 173 °F/ 78.33 °C Ethyl Alcohol No information available **Flash Point** Not available. This is an aerosol No information available

product with a Flame Projection of 18 in. with 3 in. flashback. Temperatures above 120 °F may cause cans to burst.

Faster than butyl acetate No information available **Evaporation Rate** Flammability (solid, gas)

No information available

No information available Flammability Limits in Air

Upper flammability limits Not available Not available **Lower Flammability Limit**

Not available No information available Vapor pressure

Vapor Density No information available **Relative Density** 0.87 concentrate No information available

Water solubility insoluble No information available No information available Solubility in other solvents No information available Partition coefficient **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 (%) 64.95%

Density No information available

Bulk Density 7.25 Lb/gal

10. Stability and Reactivity

Reactivity

Not applicable No data available

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 InformationThis product has not been tested as whole. See below for information on ingredients.

Inhalation See data below.

Eye Contact No data available.

Skin contact No data available.

Ingestion This is an aerosol product, ingestion is unlikely to occur. MAY BE HARMFUL IF

SWALLOWED.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Ethyl alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			
Propylene Glycol USP	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-
57-55-6			
N,N-Diethyl-m-toluamide	= 1892 mg/kg (Rat)	= 5 g/kg (Rat) = 3180 μL/kg (-
134-62-3		Rabbit) = 3180 mg/kg (Rabbit)	
Propane	-	-	= 658 mg/L (Rat) 4 h
74-98-6			
N-Butane	-	-	= 658 g/m³ (Rat) 4 h
106-97-8			, ,

Information on toxicological effects

Symptoms See information above.

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

sensitizationNo information available.Germ cell mutagenicityNo information available.

Carcinogenicity Not known chronic effects based on available information.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 21.14% of this mixture consists of ingredient(s) of unknown toxicity.

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

ATEmix (oral) 5069 mg/kg
ATEmix (inhalation-gas) 2567122 mg/l
ATEmix (inhalation-dust/mist) 182.6 mg/l
ATEmix (inhalation-vapor) 176 mg/l

12. Ecological Information

ecotoxicity

11.09% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			Microorganisms	
Ethyl alcohol		13400 - 15100: 96 h	EC50 = 34634 mg/L 30 min	10800: 24 h Daphnia magna
64-17-5		Pimephales promelas mg/L	EC50 = 35470 mg/L 5 min	mg/L EC50 9268 - 14221: 48
		LC50 flow-through 100: 96 h		h Daphnia magna mg/L
		Pimephales promelas mg/L		LC50 2: 48 h Daphnia
		LC50 static 12.0 - 16.0: 96 h		magna mg/L EC50 Static
		Oncorhynchus mykiss mL/L		
		LC50 static		
Propylene Glycol USP	19000: 96 h	710: 96 h Pimephales		1000: 48 h Daphnia magna
57-55-6	Pseudokirchneriella	promelas mg/L LC50 51400:		mg/L EC50 Static 10000: 24
	subcapitata mg/L EC50	96 h Pimephales promelas		h Daphnia magna mg/L
		mg/L LC50 static 41 - 47: 96		EC50
		h Oncorhynchus mykiss		
		mL/L LC50 static 51600: 96		
		h Oncorhynchus mykiss		
		mg/L LC50 static		
N,N-Diethyl-m-toluamide		71.25: 96 h Oncorhynchus	EC50 = 67.9 mg/L 5 min	
134-62-3		mykiss mg/L LC50 static 106		
		- 114: 96 h Pimephales		
		promelas mg/L LC50		
		flow-through		

Persistence and degradability

No information available.

Bioaccumulation

See information below.

Chemical name	Partition coefficient
Ethyl alcohol	-0.32
64-17-5	
Propane	2.3
74-98-6	
N-Butane	2.89
106-97-8	

Other adverse effects No information available

13	3. Disposal Considerations
	. Disposar Considerations

Waste treatment methods

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.

Contaminated packaging Pressurized container: Do not pierce or burn, even after use.

Chemical name	California Hazardous Waste Status
Ethyl alcohol	Toxic
64-17-5	Ignitable

14. Transport Information

DOT

UN/ID no Limited Quantity
Proper Shipping Name Consumer Commodity

Hazard Class ORM-D

IATA

UN/ID no UN1950

Proper Shipping Name Aerosols, flammable

Hazard Class 2.1

IMDG

UN/ID no UN1950

Proper Shipping Name Aerosols, flammable

Hazard Class 2.1

15. Regulatory information

International Inventories

TSCA All ingredients of this product are listed or are excluded from listing under the U.S. Toxic

Subtances 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/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

This product does not contain toxic chemicals (above the de minimis level) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA 311/312 Hazard Categories

Acute Health Hazard yes
Chronic Health Hazard No
Fire Hazard yes
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
Ethyl alcohol 64-17-5	X	X	X
Propylene Glycol USP 57-55-6	X		Х
Propane 74-98-6	X	X	Х
N-Butane 106-97-8	X	X	Х

U.S. EPA Label information

EPA Pesticide registration number 498-154

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: WARNING: Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes. Use of this product may cause skin reactions in rare cases. Wash treated clothing before wearing it again. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid breathing of spray mist. Wash hands with soap and water after handling.

16. Other information					
NFPA	Health Hazards 1	Flammability 4	Instability 1	Physical and chemical properties Not	
<u>HMIS</u>	Health Hazards 1	Flammability 4	Physical hazards 1	applicable Personal Protection A - Eyes protection	

Prepared by Regulatory Department

Issue date 15-May-2017

Revision note

This SDS supersedes a previous SDS dated May 18, 2016.

<u>Disclaimer</u>

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