

Material Safety Data Sheet: FLASH AEROSOL, C/M

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name FLASH AEROSOL, C/M
Recommended use Disinfectants and general biocidal products
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 5507
Chemical nature Aerosol
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION

Causes skin irritation
May cause allergic skin reaction
Causes severe eye irritation
May be harmful if inhaled
May be harmful if swallowed
Contents under pressure

Color Off-white

Physical State Liquid

Odor Sweet

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic Toxicity

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Skin contact, Eye contact, Inhalation.

Inhalation, Skin Absorption.

Severe irritation.

Causes skin irritation.

May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Liver and kidney injuries may occur.

Liver, Kidney, Central nervous system, Eyes, Skin, Respiratory system.

Skin disorders, Respiratory disorders, Liver disorders, Kidney disorders, Neurological disorders.

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Butane	106-97-8
Propylene glycol monomethyl ether	107-98-2
Propane	74-98-6
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	85409-23-0
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5

4. FIRST AID MEASURES

General advice

Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to physician

Avoid contact with skin, eyes and clothing. Avoid breathing mist.

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Wash off immediately with plenty of water. Call a physician if irritation develops or persists.

Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. If symptoms persist, call a physician.

Drink plenty of water. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C

Autoignition Temperature No information available.

Flammability Limits in Air % Mixture.

Suitable Extinguishing Media

Water spray. Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Method

Seta closed cup

Upper 13.8

Lower 1.6

Specific hazards arising from the chemical

The product causes irritation of eyes, skin and mucous membranes. Flame extension: 0 inches / 0 cm and Burnback: 0 inch / 0 cm. Material can create slippery conditions.

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.

Aerosol Level (NFPA 30B) -

1

NFPA Health 2**Flammability** 1**Instability** 0**HMIS** Health 2**Flammability** 1**Instability** 0**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

Methods for Cleaning Up

Pick up and transfer to properly labeled containers

Neutralizing Agent

Not applicable.

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin, eyes and clothing. Avoid breathing mist.

Storage

Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place.

Storage Temperature**Minimum** 35 °F / 2 °C**Maximum** 120 °F / 49 °C**Storage Conditions****Indoor** X**Outdoor****Heated****Refrigerated****8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³
Propylene glycol monomethyl ether	TWA: 50 ppm STEL: 100 ppm	No data available	STEL 150 ppm STEL 540 mg/m ³ TWA: 100 ppm TWA: 360 mg/m ³
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	No data available	No data available	No data available
Alkyl dimethyl benzyl ammonium chloride (C12-18)	No data available	No data available	No data available

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin Protection

For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Off-white	Odor	Sweet
Appearance	Hazy	pH	10.5
Specific Gravity	0.955	Evaporation Rate	8.98 (Butyl acetate=1)
Percent Volatile (Volume)	98	VOC Content (%)	7.9
VOC Content (g/L)	76	Vapor Pressure	69 mmHg @ 70°F
Vapor Density	1.6 (Air = 1.0)	Solubility	Miscible
Boiling Point/Range	212 °F / 100 °C		

10. STABILITY AND REACTIVITY**Chemical Stability**

Stable under normal conditions.

Conditions to Avoid
Incompatible Products
Hazardous Decomposition Products
Possibility of Hazardous Reactions

None known
 Strong oxidizing agents, Strong acids, Strong bases.
 Carbon oxides, Nitrogen oxides (NOx), Aldehydes, Ketones, Organic acids.
 None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Butane	no data available	no data available	= 658 g/m ³ (Rat) 4 h	no data available	no data available
Propylene glycol monomethyl ether	= 5200 mg/kg (Rat)	= 13 g/kg (Rabbit)	= 54.6 mg/L (Rat) 4 h > 24 mg/L (Rat) 1 h	no data available	no data available
Propane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	no data available	no data available	no data available	no data available	no data available
Alkyl dimethyl benzyl ammonium chloride (C12-18)	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS, heart
Propylene glycol monomethyl ether	no data available	no data available	X	no data available	eyes, CNS, respiratory system, skin, liver, kidney
Propane	no data available	no data available	no data available	no data available	CNS, heart
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	no data available	no data available	no data available	no data available	no data available
Alkyl dimethyl benzyl ammonium chloride (C12-18)	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Propylene glycol monomethyl ether	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	not applicable	not applicable	not applicable	not applicable	not applicable
Alkyl dimethyl benzyl ammonium chloride (C12-18)	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Butane	no data available	no data available	no data available	no data available	2.89
Propylene glycol monomethyl ether	no data available	LC50 = 20.8 g/L Pimephales promelas 96 h LC50 4600 - 10000 mg/L Leuciscus idus 96 h	no data available	EC50= 23300 mg/L 48 h	-0.437
Propane	no data available	no data available	no data available	no data available	2.3
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	no data available	no data available	no data available	no data available	N/A
Alkyl dimethyl benzyl ammonium chloride (C12-18)	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability
Bioaccumulation
Mobility

No information available.
 No information available.
 No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation

Container Disposal

of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency.
Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name DOT
Hazard Class Consumer commodity
Description ORM-D
Consumer commodity, ORM-D,

TDG

Proper shipping name Aerosols
Hazard Class 2.2
UN-No UN1950
Description AEROSOLS, 2.2, UN1950, LTD QTY

ICAO

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Shipping Description Aerosols, UN1950, LTD QTY

IATA

UN-No UN1950
Proper Shipping Name Aerosols, non-flammable, LTD QTY
Hazard Class 2.2
ERG Code 2L
Shipping Description UN1950, Aerosols, non-flammable, 2.2, LTD QTY

IMDG/IMO

Proper Shipping Name Aerosols
Hazard Class 2
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols, 2, LTD QTY

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Butane	Not applicable	Not applicable
Propylene glycol monomethyl ether	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	Not applicable	Not applicable
Alkyl dimethyl benzyl ammonium chloride (C12-18)	Not applicable	Not applicable

Canada

This product is exempt from WHMIS due to PCP registration

WHMIS Hazard Class

Exempt

16. OTHER INFORMATION

Prepared By	Sarah Williamson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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