

Safety Data Sheet: FLASH AEROSOL, CM

Supersedes Date 02/11/2011

Issuing Date 11/22/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name FLASH AEROSOL, CM
Recommended use Disinfectants and general biocidal products
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5507
Chemical nature Aerosol
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Off-white

Physical State Liquid

Odor Sweet

GHS

Classification

Physical Hazards

Gases under pressure

Compressed Gas

Health Hazard

Acute Inhalation Toxicity - Gas

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ systemic toxicity (single exposure)

Specific target organ systemic toxicity (repeated exposure)

Category 4

Category 2

Category 2A

Category 3

Category 2

Other hazards

None

Labeling

Signal Word

WARNING



Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P251 - Pressurized container: Do not pierce or burn, even after use

P280 - Wear protective gloves, protective clothing and eye protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product

P260 - Do not breathe mist

P271 - Use in a well-ventilated area.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a physician if unwell.

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs, get medical attention.

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P403 - Store in a well-ventilated place

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Butane	106-97-8	1-5

Propylene glycol monomethyl ether	107-98-2	1-5
Propane	74-98-6	1-5
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	85409-23-0	0.1-1
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	0.1-1

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing mist.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with plenty of water. Call a physician if irritation develops or persists.
Inhalation	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.
Ingestion	Drink plenty of water. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
Flammability Limits in Air % Mixture.		Upper	13.8
Suitable Extinguishing Media		Lower	1.6
Water spray. Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
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
Odor Threshold	Not applicable	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	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	212 °F / 100 °C	Flammability (solid, gas)	No data available
Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	Upper 13.8 Lower 1.6	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	None known
Incompatible Products	Strong oxidizing agents, Strong acids, Strong bases.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Aldehydes, Ketones, Organic acids.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Inhalation, Skin Absorption.

Acute Effects

Eyes	Severe irritation.
Skin	Causes skin irritation.
Inhalation	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

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

Chronic Toxicity

Liver and kidney injuries may occur.

Target Organ Effects

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

Aggravated Medical Conditions

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

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	no data available	no data available	no data available	no data available	no data available

chloride (C12-18)					
-------------------	--	--	--	--	--

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

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency.

Container Disposal

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
Hazard Class
Description

DOT

Consumer commodity
ORM-D
Consumer commodity, ORM-D,

TDG

Hazard Class
UN-No

2.2
UN1950

ICAO

UN-No
Proper Shipping Name
Hazard Class

UN1950
Aerosols
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 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

16. OTHER INFORMATION

Prepared By Sarah Williamson
 Supersedes Date 02/11/2011
 Issuing Date 11/22/2013
 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

CERTIFIED LABS, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.