5/22/2014

Germicidal Cleaner

Spray No. C823 By Claire

(claire)

SAFETY DATA SHEET

1. Identification

Product number

1000008356

Product identifier

GERMICIDAL CLEANER

Revision date

03-23-2015

Company information

Claire Manufacturing Co. 1005 S. Westgate Drive

Addison, IL 60101 United States

Company phone

General Assistance 1-630-543-7600

Emergency telephone US

1-866-836-8855

Emergency telephone outside US

1-952-852-4646

Version #

04

Supersedes date

03-05-2015

Recommended use

Cleaner

Recommended restrictions

None known.

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Serious eye damage/eye irritation

Category 2

Environmental hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Causes serious eye irritation.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/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.

Name of other lightion source. Pressurized the second of the place of burn, even after use

Wash thoroughly after handling. Wear eye/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. 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.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 ℃/122 °F.

Disposal

Not available.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Butane		106-97-8	1 - 2.5
EDTA Tertrasodium Salt		64-02-8	1 - 2.5
Other components below reportable levels			90 - 100

Product name: GERMICIDAL CLEANER

SDS US

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Water.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment

Firefighters must use standard protective equipment including flame retardant coat, helmet with

and precautions for firefighters Fire-fighting

face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with

water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose

equipment/instructions

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Specific methods

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak, Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas, Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational e	exposure	limits
----------------	----------	--------

Components	Contaminants (29 CFR 1910.1000) Type	Value
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3
		50 ppm
US. ACGIH Threshold Limit Values	5	
Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
US. NIOSH: Pocket Guide to Chem	nical Hazards	
Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3
, .		5 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
ogical limit values		
ACCILI Dialogical Evaceure Indiae	_	

Bio

ACGIH Biological Expos Components	Value	Determinant	Specimen	Sampling Time	
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2)

Skin designation applies.

US - Tennesse OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Wear appropriate chemical resistant gloves.

Skin protection

Other

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Product name: GERMICIDAL CLEANER

SDS US

Physical and chemical properties

Appearance

Physical state

Gas. Form

Aerosol, Color

Not available.

Odor

Not available.

Odor threshold

Not available.

рΗ

Not available.

Melting point/freezing point Initial boiling point and boiling Not available.

range

212 °F (100 °C) estimated

Flash point

-156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

55 - 75 psig @70F estimated

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Specific gravity

0.979 estimated

Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with

incompatible materials.

Incompatible materials

Acids. Oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion

Expected to be a low ingestion hazard.

Inhalation

Prolonged inhalation may be harmful.

Skin contact

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eve contact

Causes serious eye irritation.

Product name: GERMICIDAL CLEANER

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful if swallowed.

Components

Species

Test Results

2-Butoxyethanol (CAS 111-76-2)

Acute

Dermal

LD50

Guinea pig

230 ml/kg, 24 Hours

7.3 ml/kg, 4 Days

Rabbit

450 ml/kg, 24 Hours

435 mg/kg, 24 Hours

0.63 ml/kg

Rat

> 2000 mg/kg, 24 Hours

Inhalation

LC50

Rabbit

400 ppm, 7 Hours

Rat

450 ppm, 4 Hours

Oral

LD100

Rabbit

695 mg/kg

LD50 Dog

> 695 mg/kg

Guinea pig

1200 mg/kg

Rat

530 - 2800 mg/kg

Butane (CAS 106-97-8)

Acute

Inhalation

LC50

Mouse

1237 mg/l, 120 Minutes

52 %, 120 Minutes

and we do a second

Rat

1355 mg/l

EDTA Tertrasodium Salt (CAS 64-02-8)

Acute

Oral

LD50

Rat.

1658 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes skin burns.

Serious eye damage/eye

Causes eye burns. Risk of serious damage to eyes.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Product name: GERMICIDAL CLEANER

Specific target organ toxicity repeated exposure

Not classified.

Aspiration hazard

Not likely, due to the form of the product.

Chronic effects

Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

472 - 500 mg/l, 96 hours

Components		Species	Test Results
2-Butoxyethanol (CA	S 111-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
EDTA Tertrasodium	Salt (CAS 64-02-8)		
Aquatic			
Algae	IC50	Algae	1.01 mg/L, 72 Hours

Bluegill (Lepomis macrochirus)

LC50

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

2-Butoxyethanol

Fish

Partition coefficient n-octanol / water (log Kow)

Butane

0.83 2.89

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations....

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

14. Transport information

DOT

UN number

UN1950

UN proper shipping name

Aerosols

Transport hazard class(es)

Class

2.2

Subsidiary risk Label(s)

2.2

Packing group

Not applicable.

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions

306

Packaging non bulk

None

Packaging bulk

None

Product name: GERMICIDAL CLEANER

SDS US

Product #: 1000008356 Version #: 04 Revision date: 03-23-2015 Issue date: 07-28-2014

^{*} Estimates for product may be based on additional component data not shown.

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number

UN1950

UN proper shipping name

Aerosols, non-flammable

Transport hazard class(es)

Class

2.2

Subsidiary risk

2.2

Label(s) Packing group Environmental

Not applicable.

hazards ERG Code

Yes

2L Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Special precautions for user

Allowed.

aircraft

Cargo aircraft only

Allowed.

Packaging Exceptions

LTD QTY

IMDG

UN number

Class

UN1950

UN proper shipping name

AEROSOLS

Transport hazard class(es)

2.2

Subsidiary risk

Label(s) Packing

2.2

group Environmental

hazards

Not applicable.

Yes Marine pollutant

EmS

Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY Not applicable.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

DOT





Product name: GERMICIDAL CLEANER



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name

CAS number

Reportable quantity

100

Threshold

500 lbs

planning quantity

Threshold

Threshold

planning quantity, planning quantity, lower value upper value

Anhydrous Ammonia

7664-41-7

Hydrogen Peroxide 7722-84-1

No

1000 1000 lbs

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

US Rhode Island RTK

Butane (CAS 106-97-8)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date

07-28-2014

Revision date

03-23-2015

Version #

04

Disclaimer

The information provided in this 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 presence unless a positive test test to the test of our knowledge, information given is designed only as a

materials or in any process, unless specified in the text.

Revision Information

Product and Company Identification: Alternate Trade Names

Product name: GERMICIDAL CLEANER

SDS US

Product #: 1000008356 Version #: 04 Revision date: 03-23-2015 Issue date: 07-28-2014