

Revision Date: 04/24/2019

# SAFETY DATA SHEET

### 1. Identification

Product identifier: CLEANER DISINFECTANT BATHROOM CLEANER

Other means of identification

**SDS number:** RE1000008403

Recommended restrictions

Product Use: Disinfectant Restrictions on use: Not known.

#### Manufacturer/Importer/Distributor Information

#### Manufacturer

Telephone:

Company Name: CLAIRE MANUFACTURING COMPANY

Address: 1000 Integram Dr

Pacific, MO 63069 1-630-543-7600

Fax:

Emergency telephone number: 1-866-836-8855

# 2. Hazard(s) identification

#### **Hazard Classification**

**Physical Hazards** 

Flammable aerosol Category 1

**Health Hazards** 

Serious Eye Damage/Eye Irritation Category 2A

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Extremely flammable aerosol.

Causes serious eye irritation.

Precautionary Statements

SDS US - RE1000008403 Distributor - Interstate Products Inc. Phone#: (800) 474-7294



Revision Date: 04/24/2019

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection.

**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.

Storage: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

Hazard(s) not otherwise classified (HNOC):

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Butane	106-97-8	1 - <5%
Glycine, N,N'-1,2- ethanediylbis[N- (carboxymethyl)-, sodium salt (1:4)	64-02-8	1 - <5%
1-Hexadecanamine, N,N-dimethyl-, N-oxide	7128-91-8	1 - <3%
2-Propanol	67-63-0	1 - <5%
Propane	74-98-6	0.1 - <1%
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	0.1 - <1%
Sodium hydroxide (Na(OH))	1310-73-2	0.1 - <1%
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimet hyl, chlorides	85409-23-0	0.1 - <0.25%
Ammonium hydroxide ((NH4)(OH))	1336-21-6	0 - <0.1%
Acetic acid, phenylmethyl ester	140-11-4	0 - <0.1%
Hydrogen peroxide (H2O2)	7722-84-1	0 - <0.1%
Benzene, 1,1'-oxybis-	101-84-8	0 - <0.1%
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	128-37-0	0 - <0.1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.



Revision Date: 04/24/2019

Inhalation: Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, Eye contact:

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a

protected location. Move containers from fire area if you can do so without

risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep

upwind.

Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container

for chemical waste.



Revision Date: 04/24/2019

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop

the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you

can do so without risk.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

# 7. Handling and storage

**Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after handling. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not

pierce or burn, even after use.

Conditions for safe storage,

including any incompatibilities:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Aerosol Level 1

### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Lir	nit Values	Source
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 ppm	24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	20 ppm	97 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	25 ppm	120 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		760 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		3,700 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		2,900 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		600 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA		1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	AN ESL		3,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		7,100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)



Revision Date: 04/24/2019

	TWA PEL	800 ppm	1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		66,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		28,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
2-Propanol	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	400 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	500 ppm	1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm	1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	400 ppm	980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm	1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	AN ESL		200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	200 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	AN ESL		492 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		4,920 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL		1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Sodium hydroxide (Na(OH))	Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values (2008)
	Ceiling		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceil_Time		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling		2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	Ceiling		2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Sodium hydroxide (Na(OH)) - Particulate.	AN ESL		2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)



Revision Date: 04/24/2019

	ST ESL		20 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Ammonium hydroxide ((NH4)(OH))	STEL	35 ppm		US. ACGIH Threshold Limit Values (2008)
11 /1 //	TWA	25 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA PEL	25 ppm	18 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	STEL	35 ppm	27 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	AN ESL		92 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		180 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Acetic acid, phenylmethyl ester	TWA	10 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA PEL	10 ppm	61 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		610 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		61 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Hydrogen peroxide (H2O2)	REL	1 ppm	1.4 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm	1.4 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL		10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	1 ppm	1.4 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm		US. ACGIH Threshold Limit Values (2008)
	AN ESL		1.4 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		14 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		1 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Hydrogen peroxide (H2O2) - as H2O2	TWA PEL	1 ppm	1.4 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Hydrogen peroxide (H2O2)	PEL	1 ppm	1.4 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Benzene, 1,1'-oxybis Vapor.	STEL	2 ppm		US. ACGIH Threshold Limit Values (03 2018)



Revision Date: 04/24/2019

	TWA	1 ppm		US. ACGIH Threshold Limit Values (03 2018)
	PEL	1 ppm	7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	1 ppm	7 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	REL	1 ppm	7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm	7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene, 1,1'-oxybis-	ST ESL		70 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		7 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Benzene, 1,1'-oxybis Vapor.	TWA	1 ppm	7 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Benzene, 1,1'-oxybis-	ST ESL		10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		1 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	TWA		10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA		10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Phenol, 2,6-bis(1,1- dimethylethyl)-4-methyl Inhalable fraction and vapor.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values (2008)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	REL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
·	TWA PEL		10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

**Biological Limit Values** 

Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEL (03 2013)

# Appropriate Engineering Controls

No data available.

### Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. 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. If exposure limits have not been established, maintain airborne levels

to an acceptable level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).



Revision Date: 04/24/2019

**Skin Protection** 

**Hand Protection:** No data available.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Avoid contact with eyes. Observe good industrial hygiene practices. When

using do not smoke.

# 9. Physical and chemical properties

**Appearance** 

Physical state: liquid

Form: Spray Aerosol
Color: No data available.
Odor: No data available.
Odor threshold: No data available.
PH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.

Flash Point: -104.44 °C

**Evaporation rate:**No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

Explosive limit - lower (%):

No data available.

**Vapor pressure:** 3,792.1165 - 5,171.068 hPa (20 °C)

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

Partition coefficient (n-octanol/water):

No data available.

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

# 10. Stability and reactivity

Reactivity: No data available.



Revision Date: 04/24/2019

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

**Conditions to avoid:** Avoid heat or contamination.

**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

**Products:** 

No data available.

#### 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 27,338.16 mg/kg

**Dermal** 

**Product:** ATEmix: 13,752.58 mg/kg

Inhalation

**Product:** ATEmix: 412.37 mg/l ATEmix : 103.09 mg/l

Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxy- NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key

SDS US - RE1000008403 9/23



Revision Date: 04/24/2019

study

study

NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation

Experimental result. Key study

Butane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

NOAEL (Rat(Female, Male), Oral, 103 Weeks): >= 500 mg/kg Oral Read-

across from supporting substance (structural analogue or surrogate), Key

Experimental result, Key study

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

2-Propanol

LOAEL (Rat(Male), Inhalation, 1 - 5 d): 30 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Key study

NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation

Experimental result, Key study

Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Sulfuric acid monododecyl ester sodium salt (1:1) NOAEL (Rat(Female, Male), Oral, 13 Weeks): 482 mg/kg Oral Experimental

result, Supporting study

sodium salt (1:1) NOAEL (Rat(Female, Male), Oral, 2 yr): 0.15 %(m) Oral Experimental result,

Supporting study

Acetic acid, phenylmethyl

ester

NOAEL (Rat(Male), Oral, 13 Weeks): 900 mg/kg Oral Experimental result,

Supporting study

NOAEL (Rat(Female), Oral, 13 Weeks): 480 mg/kg Oral Experimental result,

Supporting study

Hydrogen peroxide

(H2O2)

LOAEL (Rat(Male), Other route of exposure (excluding dermal, oral and inhalation), 12 Weeks): 56.2 mg/kg Other route of exposure (excluding

dermal, oral and inhalation) Not specified, Supporting study

LOAEL (Rat, Inhalation, 6 Weeks): 67 ppm(m) Inhalation Not specified,

Supporting study

LOAEL (Rat(Female, Male), Other route of exposure (excluding dermal, oral and inhalation), 6 Months): 0.005 mg/kg Other route of exposure (excluding

dermal, oral and inhalation) Not specified, Supporting study

LOAEL (Rat(Female, Male), Inhalation): 14.6 mg/m3 Inhalation Experimental

result, Key study

LOAEL (Mouse(Male), Oral, 40 d): 0.5 %(m) Oral Not specified, Supporting

study

Benzene, 1,1'-oxybis- NOAEL (Rat(Female, Male), Dermal, 13 Weeks): 100 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Male), Oral, 13 Weeks): 301 mg/kg Oral Experimental result,

Key study

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

NOAEL (Rat(Male), Oral, 1.25 - 22.75 Months): 25 mg/kg Oral Experimental

result, Key study

Skin Corrosion/Irritation

Product:

No data available.

Specified substance(s):



Revision Date: 04/24/2019

Ethanol, 2-butoxy- in vivo (Rabbit): Irritating Experimental result, Key study

Glycine, N,N'-1,2ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)

in vivo (Rabbit): Not irritant Experimental result, Key study

2-Propanol in vivo (Rabbit): Not Classified Experimental result, Key study

Sulfuric acid monododecyl ester sodium salt (1:1) in vivo (Rabbit): Irritating Experimental result, Key study

Acetic acid, phenylmethyl ester

in vivo (Rabbit): Not irritant Experimental result, Key study

Hydrogen peroxide

(H2O2)

in vivo (Rabbit): Category 2 Experimental result, Key study in vivo (Rabbit): Not irritant Experimental result, Key study in vivo (Rabbit): Category 2 Experimental result, Key study in vivo (Rabbit): Category 2 Experimental result, Key study in vivo (Rabbit): Category 2 Experimental result, Key study

Benzene, 1,1'-oxybis- in vivo (Rabbit): Not irritant Experimental result, Key study

Phenol, 2,6-bis(1,1-dimethylethyl)-4-

methyl-

in vivo (Rabbit): Not irritant Experimental result, Key study

# Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxy- Rabbit, 24 - 72 hrs: Irritating

2-Propanol Rabbit, 1 d: Irritating.

Sulfuric acid monododecyl ester sodium salt (1:1) Rabbit, 24 - 72 hrs: Irritating.

Sodium hydroxide

(Na(OH))

Corrosive

Rabbit, 2 d: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide-

Slightly irritating to eyes



Revision Date: 04/24/2019

Hydrogen peroxide (H2O2)

Rabbit, 24 hrs: Category 2A Rabbit, 24 hrs: Category 2A Rabbit, 24 hrs: Category 2A Rabbit: Category 2A

Rabbit, 72 hrs: Category 2A Rabbit, 24 hrs: Category 2A Rabbit, 24 - 72 hrs: Category 2A

Rabbit: Category 2A Rabbit: Category 2A Rabbit: Category 2A Rabbit: Category 2A Rabbit: Category 2A

Rabbit, 24 hrs: Category 2A Rabbit, 72 hrs: Category 2A Rabbit, 72 hrs: Category 2A Rabbit, 72 hrs: Category 2A Rabbit, 24 - 72 hrs: Not irritating Rabbit, 24 hrs: Category 2A

Rabbit: Category 2A Rabbit: Category 2A Rabbit: Category 2A

Benzene, 1,1'-oxybis-Rabbit, 48 - 72 hrs: Irritating.

Phenol, 2,6-bis(1,1dimethylethyl)-4-

methyl-

Rabbit, 24 - 72 hrs: Not irritating

#### Respiratory or Skin Sensitization

Product: No data available.

# Specified substance(s):

Ethanol, 2-butoxy-Skin sensitization:, in vivo (Guinea pig): Non sensitising Glycine, N,N'-1,2-Skin sensitization:, in vivo (Guinea pig): Non sensitising

ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)

2-Propanol Skin sensitization:, in vivo (Guinea pig): Non sensitising Sulfuric acid Skin sensitization:, in vivo (Guinea pig): Non sensitising

monododecyl ester sodium salt (1:1)

Acetic acid. Skin sensitization:, in vivo (Guinea pig): Sensitising

phenylmethyl ester Hydrogen peroxide Skin sensitization: (Human): Non sensitising

(H2O2) Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Benzene, 1,1'-oxybis-

Skin sensitization:, in vivo (Human): Non sensitising Skin sensitization:, in vivo (Human): Non sensitising Phenol, 2,6-bis(1,1-Skin sensitization:, in vivo (Guinea pig): Non sensitising

methyl-

dimethylethyl)-4-

# Carcinogenicity

**Product:** No data available.



Revision Date: 04/24/2019

# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

#### **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

### 12. Ecological information

### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxy- LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key

study

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Glycine, N,N'-1,2- NOAEL (Lepomis macrochirus, 96 h): 88 mg/l Experimental result, Key

SDS US - RE1000008403 13/23



Revision Date: 04/24/2019

ethanediylbis[N-(carboxymethyl)-, sodiur

study

(carboxymethyl)-, sodium salt (1:4)

LC 50 (Lepomis macrochirus, 96 h): 121 mg/l Experimental result, Key study

Sait (1:4)

2-Propanol

LC 50 (Pimephales promelas, 96 h): 9,640 mg/l Experimental result, Key

study

Propane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Sulfuric acid monododecyl ester sodium salt (1:1) LC 50 (Pimephales promelas, 96 h): 29 mg/l Experimental result, Key study

Sodium hydroxide

(Na(OH))

LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality LC 50 (Gambusia affinis, 96 h): < 180 mg/l Experimental result, Supporting

study

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl] dimethyl, chlorides

EC 50 (96 h): < 10 mg/l

Ammonium hydroxide ((NH4)(OH))

LC 50 (Fathead minnow (Pimephales promelas), 24 h): 17 mg/l Mortality

LC 50 (Goldfish (Carassius auratus), 24 h): 17 mg/l Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 18 mg/l Mortality LC 50 (Channel catfish (Ictalurus punctatus), 24 h): 2.36 mg/l Mortality LC 50 (Fathead minnow (Pimephales promelas), 24 h): 23.02 mg/l Mortality

Acetic acid, phenylmethyl ester

LC 50 (Medaka, high-eyes (Oryzias latipes), 96 h): 3.48 - 4.6 mg/l Mortality

LC 50 (Oryzias latipes, 96 h): 4 mg/l Other, Key study

Hydrogen peroxide (H2O2)

LC 50 (Jack Mackerel (Trachurus japonicus), 24 h): 89 mg/l Mortality LC 50 (Chameleon goby (Tridentiger trigonocephalus), 24 h): 155 mg/l

Mortality

LC 100 (Leuciscus idus, 72 h): 40 mg/l Not specified, Supporting study LC 0 (Oncorhynchus mykiss, 60 min): 500 mg/l Not specified, Supporting

study

LC 100 (Oncorhynchus tshawytscha, 1 h): 250 mg/l Not specified,

Supporting study

Benzene, 1,1'-oxybis-

LC 50 (Oncorhynchus mykiss, 96 h): 4.2 mg/l Experimental result, Key study

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

LC 50 (Pimephales promelas, 96 h): 0.363 mg/l

Aquatic Invertebrates Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

Butane LC 50 (Daphnia s

LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

EC 50 (Daphnia magna, 24 h): 610 mg/l Experimental result, Key study



Revision Date: 04/24/2019

2-Propanol LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study

Sulfuric acid monododecyl ester sodium salt (1:1) LC 50 (Daphnia magna, 48 h): 1.8 mg/l Experimental result, Not specified

Sodium hydroxide

(Na(OH))

EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 34.59 - 47.13 mg/l

Intoxication

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl] dimethyl, chlorides

EC 50: 0.015 mg/l

Ammonium hydroxide

((NH4)(OH))

LC 50 (Water flea (Daphnia magna), 25 h): 60 mg/l Mortality LC 50 (Water flea (Daphnia magna), 50 h): 32 mg/l Mortality LC 50 (Water flea (Daphnia magna), 100 h): 20 mg/l Mortality

LC 50 (Water flea (Ceriodaphnia dubia), 48 h): > 0 - 10 mg/l Mortality

Acetic acid, phenylmethyl

ester

EC 50 (Daphnia magna, 24 h): 25 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 17 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 10 mg/l Experimental result, Key study

Hydrogen peroxide

(H2O2)

EC 50 (Dreissena polymorpha, 480 h): 6 mg/l Not specified, Supporting

study

EC 50 (Gammarus sp., 96 h): 4.42 mg/l Not specified, Supporting study LC 50 (Daphnia pulex, 48 h): 2.4 mg/l Experimental result, Key study EC 50 (Physa sp., 96 h): 17.7 mg/l Not specified, Supporting study NOAEL (Lepeophtheirus salmonis, 20 min): < 500 mg/l Not specified,

Supporting study

Benzene, 1,1'-oxybis-

LC 50 (Daphnia magna, 48 h): 1.7 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 1 mg/l Experimental result, Key study

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

EC 50 (Daphnia magna, 48 h): 0.61 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.15 mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxy- NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

NOAEL (Danio rerio): >= 25.7 mg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

Sulfuric acid monododecyl ester sodium salt (1:1) NOAEL (Pimephales promelas): > 1.357 mg/l Experimental result, Key study

Quaternary ammonium compounds, C12-14-

NOEC (28 d): 0.032 mg/l



Revision Date: 04/24/2019

alkyl[(ethylphenyl)methyl] dimethyl, chlorides

**Aquatic Invertebrates** 

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study

Glycine, N,N'-1,2ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4) NOAEL (Daphnia magna): 25 mg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

Sulfuric acid monododecyl ester sodium salt (1:1) NOAEL (Ceriodaphnia dubia): 1.2 mg/l Experimental result, Key study

Hydrogen peroxide

(H2O2)

NOAEL (Daphnia magna): 0.63 mg/l Experimental result, Key study LOAEL (Daphnia magna): 1.25 mg/l Experimental result, Key study

NOAEL (Aquatic arthropod): 1.62 mg/l Experimental result, Supporting study

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

NOAEL (Daphnia magna): 0.316 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants** 

Product:

No data available.

Specified substance(s):

Sulfuric acid monododecyl ester sodium salt (1:1) EC 50 (Green algae (Selenastrum capricornutum), 48 h): 706 - 5,918 mg/l Mortality

### Persistence and Degradability

Biodegradation

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

90.4 % Detected in water. Experimental result, Key study

**Butane** 

100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

90 - 100 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

2-Propanol 53 % (5 d) Detected in water. Experimental result, Key study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study



Revision Date: 04/24/2019

Sulfuric acid monododecvl ester sodium salt (1:1)

94 % (28 d) Detected in water. Experimental result, Supporting study

95 % Detected in water. Experimental result. Key study

Acetic acid, phenylmethyl

ester

100 % (28 d) Detected in water. Experimental result, Key study

Hydrogen peroxide

(H2O2)

60 % Detected in water. Experimental result, Supporting study > 99 % (30 min) Detected in water. Experimental result, Key study 97 % Detected in water. Experimental result, Supporting study

80 - 99 % (30 min) Detected in water. Experimental result, Supporting study

Benzene, 1,1'-oxybis-76 % Detected in water. Experimental result, Key study

Phenol, 2,6-bis(1,1dimethylethyl)-4-methyl4.5 % (28 d) Detected in water. Experimental result, Key study

**BOD/COD Ratio** 

Product: No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

Product: No data available.

Specified substance(s):

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

Lepomis macrochirus, Bioconcentration Factor (BCF): 1.8 Aquatic sediment

Experimental result, Key study

Sulfuric acid monododecyl ester

sodium salt (1:1)

Carp (Cyprinus carpio), Bioconcentration Factor (BCF): 50 (Flow through)

Acetic acid, phenylmethyl

ester

Bioconcentration Factor (BCF): 8 Aquatic sediment Estimated by calculation.

Key study

Benzene, 1,1'-oxybis-

Oncorhynchus mykiss, Bioconcentration Factor (BCF): 200 Aguatic sediment

Experimental result, Key study

Phenol, 2,6-bis(1,1dimethylethyl)-4-methylCyprinus carpio, Bioconcentration Factor (BCF): 330 - 1,800 Aquatic

sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Phenol, 2,6-bis(1,1dimethylethyl)-4-methylLog Kow: 5.11 - 5.2 No Experimental result, Weight of Evidence study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments



Revision Date: 04/24/2019

Ethanol, 2-butoxy
Butane

Glycine, N,N'-1,2
No data available.

No data available.

No data available.

ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

1-Hexadecanamine, N,N- No data available.

dimethyl-, N-oxide

2-Propanol No data available.
Propane No data available.
Sulfuric acid monododecyl No data available.

ester sodium salt (1:1)

Sodium hydroxide (Na(OH)) No data available. Quaternary ammonium No data available.

compounds, C12-14-alkyl[(ethylphenyl)methyl]di

methyl, chlorides

Ammonium hydroxide

((NH4)(OH))

Acetic acid, phenylmethyl

ester

Hydrogen peroxide (H2O2)

Benzene, 1,1'-oxybisPhenol, 2,6-bis(1,1dimethylethyl)-4-methyl-

No data available.

No data available.

No data available. No data available. No data available.

Other adverse effects: No data available.

# 13. Disposal considerations

**Disposal instructions:** Wash before disposal. Dispose to controlled facilities.

Contaminated Packaging: No data available.

#### 14. Transport information

#### DOT

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1
Label(s): –
Packing Group: II
Marine Pollutant: No

Environmental Hazards: No Marine Pollutant No



Revision Date: 04/24/2019

Special precautions for user: Not regulated.

**IMDG** 

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2 Label(s): – EmS No.:

Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s): –

Packing Group: –

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

### 15. Regulatory information

**US Federal Regulations** 

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

<b>Chemical Identity</b>	Reportable quantity
Butane	lbs. 100
2-Propanol	lbs. 100
Propane	lbs. 100
Sodium hydroxide	lbs. 1000
(Na(OH))	
Ammonium hydroxide	lbs. 1000
((NH4)(OH))	

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Fire Hazard

Immediate (Acute) Health Hazards

Flammable aerosol

Serious Eye Damage/Eye Irritation



Revision Date: 04/24/2019

# SARA 302 Extremely Hazardous Substance

Reportable

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

Hydrogen peroxide lbs. 1000 lbs. 1000

(H2O2)

# SARA 304 Emergency Release Notification

<u>ntity</u>	Reportable quantity
оху-	
	lbs. 100
	lbs. 100
	lbs. 100
hydroxide	lbs. 1000
hydroxide	lbs. 1000
peroxide	
	hydroxide hydroxide

# **SARA 311/312 Hazardous Chemical**

Chemical Identity	Threshold Planning Quantity
Hydrogen peroxide (H2O2)	lbs
Ethanol, 2-butoxy-	10000 lbs
Butane	10000 lbs
Glycine, N,N'-1,2-ethanediylbis[N-	10000 lbs
(carboxymethyl)-, sodium salt	
(1:4)	
1-Hexadecanamine, N,N-	10000 lbs
dimethyl-, N-oxide	
2-Propanol	10000 lbs
Propane	10000 lbs
Sulfuric acid monododecyl ester	10000 lbs
sodium salt (1:1)	
Sodium hydroxide (Na(OH))	10000 lbs
Quaternary ammonium	10000 lbs
compounds, C12-14-	
alkyl[(ethylphenyl)methyl]dimethyl,	
chlorides	
Ammonium hydroxide	10000 lbs
((NH4)(OH))	
Acetic acid, phenylmethyl ester	10000 lbs
Benzene, 1,1'-oxybis-	10000 lbs
Phenol, 2,6-bis(1,1-dimethylethyl)-	10000 lbs
4-methyl-	

#### **SARA 313 (TRI Reporting)**

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Ethanol, 2-butoxy-	N230 lbs	N230 lbs.
2-Propanol	lbs	lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) US State Regulations

### **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.



Revision Date: 04/24/2019

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

### **Chemical Identity**

Ethanol, 2-butoxy-Butane 2-Propanol

#### **US. Massachusetts RTK - Substance List**

### **Chemical Identity**

Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3) Hydrogen peroxide (H2O2)

# US. Pennsylvania RTK - Hazardous Substances

### **Chemical Identity**

Ethanol, 2-butoxy-Butane 2-Propanol

### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

### International regulations

# **Montreal protocol**

Not applicable

# Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

# **Kyoto protocol**

Not applicable



Revision Date: 04/24/2019

**Inventory Status:** 

Australia AICS: Not in compliance with the inventory.

Canada DSL Inventory List: Not in compliance with the inventory.

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: Not in compliance with the inventory.

US TSCA Inventory: Not in compliance with the inventory.

New Zealand Inventory of Chemicals: Not in compliance with the inventory.

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory: Not in compliance with the inventory.

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

**Issue Date:** 04/24/2019

**Revision Information:** No data available.

Version #: 1.0

Further Information: FIFRA: This chemical is a pesticide product registered by the United States

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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.



Revision Date: 04/24/2019

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.