# SAFETY DATA SHEET



Version # 03

Issue date: 04-17-2019 Revision date: 08-01-2023 Supersedes date: 04-17-2019

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

Bug-Off

Registration number

None.

**Synonyms Product Code** 1078

1.2. Relevant identified uses of the substance or mixture and uses advised against

Tar and Bug Remover Identified uses

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Malco Products, Inc. Company name

**Address** 361 Fairview Ave

Barberton, OH 44203

US

Division

Telephone Phone 800-253-2526

> 330-777-8317 Fax

msdsinfo@malcopro.com e-mail

Contact person Not available.

1.4. Emergency telephone Phone 1-800-424-9300

24hr Emergency Assistance in New Zealand:

National Poison Control Center: 0800 Poison [764 766]

**DISTRIBUTOR IN NEW ZEALAND:** Pacer - Car Clean Products NZ Ltd

33 Ha Crescent, Wiri, Auckland 2104

09 25000 91

sales@pacer.co.nz

www.pacer.co.nz

New Zealand

Phone:

Email:

Website:

number

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards** 

Serious eye damage/eye irritation H319 - Causes serious eye Category 2

irritation.

Hazard Summary (according to Dangerous Substances Directive)

Physical hazards Not classified for physical hazards. **Health hazards** Not classified for health hazards.

Not classified for hazards to the environment. **Environmental hazards** 

Specific hazards None known.

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

vision.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms

Signal word Warning

**Hazard statements** 

Causes serious eye irritation. H319

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#### **Precautionary statements**

Prevention

Wash thoroughly after handling. P264 Wear eye protection/face protection. P280

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.

Not available. Storage Not available. Disposal

1,25% of the mixture consists of component(s) of unknown acute dermal toxicity. 11,25% of the Supplemental label information

mixture consists of component(s) of unknown acute inhalation toxicity, 11.25% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 11,25% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation 2.3. Other hazards

(EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

### General information

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
2-(2-butoxyethoxy)ethanol; diethyle glycol monobutyl ether	ene 10 - < 20	112-34-5 203-961-6	-	603-096-00-8	#
Classificati	on: Eye Irrit. 2;	H319			
sodium carbonate	< 1	497-19-8 207-838-8	-	011-005-00-2	
Classificati	on: Acute Tox.	3;H331;(ATE: 0,8 m	g/I), Skin Corr. 1B;H314, Ey	e Irrit. 2;H319	
ammonia%	< 0,2	1336-21-6 215-647-6	-	007-001-01-2	
Classificati	on: Skin Corr.	1B;H314, Eye Dam.	1;H318, Aquatic Acute 1;H4	.00	В

80 - < 90Other components below reportable

# List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16. Composition comments

### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

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

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

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and delayed

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

vision

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

# **SECTION 5: Firefighting measures**

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing Alcohol resistant foam. Powder. Carbon dioxide (CO2).

media

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Unsuitable extinguishing

media

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

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

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

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not touch damaged containers or spilled material unless wearing appropriate protective

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in

Section 8 of the SDS.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid contact with eyes, Avoid prolonged exposure, Provide adequate ventilation, Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

Value

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

Austria. MAK List, OEL Ord	linance (GwV), BGBI. II, no. 184/2001
Components	Туре

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	MAK	67,5 mg/m3
		10 ppm
	STEL	101,2 mg/m3
		15 ppm
Belgium. Exposure Limit Values		
Components	Туре	Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	Type STEL	<b>Value</b> 101,2 mg/m3
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl		101,2 mg/m3

#### Bulgaria, OELs, Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components Type Value

2-(2-butoxyethoxy)ethanol;	STEL	101,2 mg/m3
diethylene glycol monobutyl		
ether (CAS 112-34-5)		

15 ppm Material name: Bug- Off

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#### France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Type Value VLE 2-(2-butoxyethoxy)ethanol; 101,2 mg/m3 diethylene glycol monobutyl ether (CAS 112-34-5) Regulatory status: Regulatory indicative (VRI) 15 ppm Regulatory status: Regulatory indicative (VRI) 68 ma/m3 **VME** Regulatory status: Regulatory indicative (VRI) 10 ppm Regulatory indicative (VRI) Regulatory status: Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) Components **Type** Value **Form** 2-(2-butoxyethoxy)ethanol; TWA 67 mg/m3 Vapor and aerosol. diethylene glycol monobutyl ether (CAS 112-34-5) 10 ppm Vapor and aerosol. Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace **Form** Components Type Value 2-(2-butoxyethoxy)ethanol; AGW Vapor and aerosol. 67 mg/m3 diethylene glycol monobutyl ether (CAS 112-34-5) 10 ppm Vapor and aerosol. Greece. OELs (Decree No. 90/1999, as amended) Components Value Type 2-(2-butoxyethoxy)ethanol; STEL 101,2 mg/m3 diethylene glycol monobutyl ether (CAS 112-34-5) 15 ppm **TWA** 67,5 mg/m3 10 ppm Hungary. OELs. Joint Decree on Chemical Safety of Workplaces Value Components Type STEL 2-(2-butoxyethoxy)ethanol; 101,2 mg/m3 diethylene glycol monobutyl ether (CAS 112-34-5) **TWA** 67,5 mg/m3 Iceland. OELs. Regulation 154/1999 on occupational exposure limits Components Value **Type** STEL 101,2 mg/m3 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 15 ppm **TWA** 67,5 mg/m3 10 ppm Ireland. Occupational Exposure Limits Components **Value** Type 2-(2-butoxyethoxy)ethanol; STFI 101,2 mg/m3 diethylene alvcol monobutyl ether (CAS 112-34-5) 12 ppm TWA 67,5 mg/m3 10 ppm

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taly. Occupational Exposure Limits Components	Туре	Value
-(2-butoxyethoxy)ethanol; iethylene glycol monobutyl	STEL	101,2 mg/m3
ther (CAS 112-34-5)		15 ppm
	T\A/A	15 ppm
	TWA	67,5 mg/m3
		10 ppm
.atvia. OELs. Occupational exposu Components	re limit values of chemical s Type	ubstances in work environment Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3
		15 ppm
	TWA	67,5 mg/m3
		10 ppm
ithuania OELa Limit Valuas for (	Chamical Cubatanasa Canar	
ithuania. OELs. Limit Values for Components	Type	ai Requirements Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3
,		15 ppm
	TWA	67,5 mg/m3
		10 ppm
	l (A	
uxembourg. Binding Occupationa. Components	Type	value
-(2-butoxyethoxy)ethanol; iethylene glycol monobutyl	STEL	101,2 mg/m3
		15 ppm
ether (CAS 112-34-5)		15 ppm
other (CAS 112-34-5)  Malta. OELs. Occupational Exposusochedules I and V)	•	Occupational Health and Safety Authority Act (CAP. 424
other (CAS 112-34-5)  Malta. OELs. Occupational Exposuschedules I and V)	Туре	
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl	•	Occupational Health and Safety Authority Act (CAP. 424  Value  101,2 mg/m3
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl	Туре	Occupational Health and Safety Authority Act (CAP. 424
Alta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl	Туре	Occupational Health and Safety Authority Act (CAP. 424  Value  101,2 mg/m3
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl	Type STEL	Occupational Health and Safety Authority Act (CAP. 424  Value  101,2 mg/m3  15 ppm
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl other (CAS 112-34-5)	Type STEL	Value  101,2 mg/m3  15 ppm 67,5 mg/m3
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)	Type STEL	Value  101,2 mg/m3  15 ppm 67,5 mg/m3
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylethylene glycol monobutylethylene glycol monobutyl	Type STEL TWA	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylethylene glycol	Type STEL TWA Type	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value
Malta. OELs. Occupational Exposuschedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)	Type STEL  TWA  Type STEL  TWA	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3
Malta. OELs. Occupational Exposus Schedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Norway. Administrative Norms for the components	Type  STEL  TWA  Type  STEL  TWA  TWA  Contaminants in the Workpla	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3
Malta. OELs. Occupational Exposus Schedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Metherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Norway. Administrative Norms for Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)	Type STEL  TWA  Type STEL  TWA	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3
Malta. OELs. Occupational Exposus Schedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Norway. Administrative Norms for Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)	Type STEL  TWA  Type STEL  TWA  Contaminants in the Workplating	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3  ace  Value  68 mg/m3
Malta. OELs. Occupational Exposus Schedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Norway. Administrative Norms for Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Poland. Ordinance of the Minister oconcentrations and intensities of h	Type  STEL  TWA  Type  STEL  TWA  Contaminants in the Workplaty of Labour and Social Policy of armful health factors in the workplaty of Labour and Social Policy of Labou	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3  ace  Value  68 mg/m3  10 ppm  on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
Malta. OELs. Occupational Exposus Schedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Norway. Administrative Norms for Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Poland. Ordinance of the Minister occupance occupance occupance of the Minister occupance	Type  STEL  TWA  Type  STEL  TWA  Contaminants in the Workplaty of Labour and Social Policy of armful health factors in the workplety of Type	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3  ace  Value  68 mg/m3  10 ppm  on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value
Malta. OELs. Occupational Exposus Schedules I and V) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Netherlands. OELs (binding) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Norway. Administrative Norms for Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutylether (CAS 112-34-5)  Poland. Ordinance of the Minister Concentrations and intensities of h	Type  STEL  TWA  Type  STEL  TWA  Contaminants in the Workplaty of Labour and Social Policy of armful health factors in the workplaty of Labour and Social Policy of Labou	Value  101,2 mg/m3  15 ppm 67,5 mg/m3 10 ppm  Value  100 mg/m3  50 mg/m3  ace  Value  68 mg/m3  10 ppm  on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817

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Components	Type	ational Exposure Limit Values (AFS Value		
	TWA	68 mg/m3		
		10 ppm		
Switzerland. SUVA Grenzwe	erte am Arbeitsplatz			
Components	Туре	Value	Form	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101 mg/m3	Vapor and aerosol.	
		15 ppm	Vapor and aerosol.	
	TWA	67 mg/m3	Vapor and aerosol.	
		10 ppm	Vapor and aerosol.	
UK. EH40 Workplace Expos	sure Limits (WELs)			
Components	Туре	Value		
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3		
		15 ppm		
	TWA	67,5 mg/m3		
		10 ppm		
EU. Indicative Exposure Lir Components	nit Values in Directives 91/322/ Type	/EEC, 2000/39/EC, 2006/15/EC, 2009 Value	/161/EU, 2017/164/EU	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3		
,		15 ppm		
	TWA	67,5 mg/m3		
		10 ppm		
logical limit values	No biological exposure limits r	noted for the ingredient(s).		
commended monitoring	Follow standard monitoring pr	Follow standard monitoring procedures.		
ived no effect levels ELs)	Not available.			
dicted no effect centrations (PNECs)	Not available.			
osure guidelines				
Netherlands OELs (binding)	): Skin designation			
ether (CAS 112-34-5)	ol; diethylene glycol monobutyl	Can be absorbed through the skin.		
Exposure controls				
propriate engineering trols	Good general ventilation 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			

### Exp

# 8.2

established, maintain airborne levels to an acceptable level. Provide eyewash station.

# Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information** 

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

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

Skin protection

Wear appropriate chemical resistant gloves. - Hand protection

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Material name: Bug- Off SDS EU 8 / 13 **Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical stateLiquid.FormLiquid.

Color Not available.

Odor Not available.

Melting point/freezing point Not available.

Boiling point or initial boiling Not available.

point and boiling range

Flammability
Not applicable.
Flash point
Not available.
Auto-ignition temperature
Not available.
Pecomposition temperature
PH
10,8 - 11
Kinematic viscosity
Not available.

Solubility

Solubility (water) Not available.

Vapor pressure Not available.

Density and/or relative density

Density8,40 lb/galVapor densityNot available.Particle characteristicsNot available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Specific gravity 1,01

VOC 10,09 % estimated

## **SECTION 10: Stability and reactivity**

**10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition

No hazardous decomposition products are known.

products

# **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

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

vision.

11.1. Information on toxicological effects

Acute toxicity Not known.

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**Test Results** Components Species

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)

Acute Dermal

LD50 Rabbit 2700 mg/kg

Oral

LD50 Rat 4500 mg/kg

sodium carbonate (CAS 497-19-8)

Acute Inhalation

800 mg/m3, 2 Hours LC50

Oral

LD50 Rat 4090 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eve damage/eve

irritation

Causes serious eve irritation.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible. Skin sensitization Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

### 11.2. Information on other hazards

**Endocrine disrupting** 

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Not available. Other information

### **SECTION 12: Ecological information**

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Components **Test Results** Species

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 1300 mg/l, 96 hours

ammonia ....% (CAS 1336-21-6)

Aquatic

Acute

LC50 Fish Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours

sodium carbonate (CAS 497-19-8)

Aquatic

Acute

Crustacea EC50 Water flea (Ceriodaphnia dubia) >= 156,6 - <= 298,9 mg/l, 48 hours

Fish LC50 Bluegill (Lepomis macrochirus) 300 mg/l, 96 hours

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (log Kow)

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether 0,56

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Residual waste 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 Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

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

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Special precautions**Dispose in accordance with all applicable regulations.

# **SECTION 14: Transport information**

### ADR

14.1. UN number14.2. UN proper shippingNot regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.
Subsidiary risk Not assigned.
Hazard No. (ADR) Not assigned.
Tunnel restriction code
14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions for Not assigned.

user

RID

**14.1. UN number**Not regulated as dangerous goods. **14.2. UN proper shipping**Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.
Subsidiary risk Not assigned.
14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions for Not assigned.

user

ADN

**14.1. UN number 14.2. UN proper shipping**Not regulated as dangerous goods.
Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.
Subsidiary risk Not assigned.

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions for Not assigned.

user

IATA

**14.1. UN number** Not regulated as dangerous goods.

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14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned. Subsidiary risk Not assigned. 14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions for Not assigned.

user

**IMDG** 

14.1. UN number Not regulated as dangerous goods. Not regulated as dangerous goods. 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class Not assigned. Subsidiary risk Not assigned. 14.4. Packing group Not assigned.

14.5. Environmental hazards

Marine pollutant Nο

Not assigned. **FmS** 14.6. Special precautions for Not assigned.

14.7. Maritime transport in bulk Not established.

according to IMO instruments

**NEW ZEALAND:** 

Cleaning Products (Subsidiary Hazard) Group Standard 2020 HSR002530

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

**Authorizations** 

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ammonia ....% (CAS 1336-21-6)

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as **National regulations** 

amended. Follow national regulation on the protection of workers from the risks of exposure to

carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.

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### **SECTION 16: Other information**

### List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

The classification for health and environmental hazards is derived by a combination of calculation

Chemicals in Bulk.

Not available.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

#### References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

methods and test data, if available.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

**Revision information** Training information

Disclaimer

This document has undergone significant changes and should be reviewed in its entirety.

Follow training instructions when handling this material.

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 process, unless specified in the text. Malco Products, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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