

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**SECTION 1. IDENTIFICATION**

Commercial Product Name : Bardac™ 208M  
Product name : Bardac™ 208M  
Product code : 000000001375

**Manufacturer or supplier's details**

Company : **Lonza Inc.**  
90 Boroline Road  
Allendale, NJ 07401  
USA  
Business Telephone 1-201-316-9200

E-mail address : prodinfo@lonza.com  
Emergency telephone number : +41 61 313 94 94 (24h )  
For US only CHEMTREC 1-800-424-9300

**Recommended use of the chemical and restrictions on use**

Recommended use : Cleaning/washing agents and disinfectants

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Dermal) : Category 3  
Skin corrosion : Category 1B  
Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

## Bardac™ 208M

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Precautionary statements : **Prevention:**  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	30.00 - 50.00
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	30.00 - 50.00
Ethanol	64-17-5	10.00 - 15.00

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**SECTION 4. FIRST AID MEASURES**

- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician or poison control centre immediately.  
Keep respiratory tract clear.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Take off contaminated clothing and shoes immediately.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
Take victim immediately to hospital.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Continue rinsing eyes during transport to hospital.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Heating or fire can release toxic gas.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Bardac™ 208M

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Use respirator when performing operations involving potential exposure to vapour of the product.  
Beware of vapours accumulating to form explosive concentrations.  
Vapours can accumulate in low areas.

Environmental precautions

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Non-sparking tools should be used.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.  
To maintain product quality, do not store in heat or direct sunlight.  
No smoking.

Recommended storage temperature : 26.7 - 37.8 °C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type	Control parame-	Basis
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## Bardac™ 208M

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

		(Form of exposure)	ters / Permissible concentration	
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		REL	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH/GUIDE
		PEL	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA_TRANS
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	Z1A
		STEL	1,000 ppm	CAD ON OEL

**Hazardous components without workplace control parameters**

Components	CAS-No.
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1

**Appropriate engineering controls**
**Personal protective equipment**

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
Respirator with ABEK filter.  
  
Respirator with a vapour filter (EN 141)
- Hand protection  
Material : Nitrile rubber
- Remarks : Wear protective gloves. Break through time : > 480 min
- Eye protection : Safety glasses with side-shields conforming to EN166  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Impervious clothing
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : light yellow
- Odour : mild
- Odour Threshold : no data available

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

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pH	:	6.5 - 9.0, Concentration: 100 g/l (25 °C)
Melting point/range	:	-23.3 °C
Boiling point/boiling range	:	no data available
Flash point	:	46 °C Method: Setaflash closed cup, closed cup
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	no data available
Density	:	0.93 g/cm <sup>3</sup> (25 °C)
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	ca. 30 g/l Solvent: Ethanol  ca. 70 g/l Solvent: Isopropanol
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	not determined
Decomposition temperature	:	no data available
Viscosity		
Viscosity, dynamic	:	535 mPa.s (20 °C) Brookfield
Viscosity, kinematic	:	not determined
Explosive properties	:	No hazards to be specially mentioned.
Oxidizing properties	:	no data available
Surface tension	:	32 mN/m

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**SECTION 10. STABILITY AND REACTIVITY**

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	: No decomposition if used as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure	: Inhalation Ingestion Eyes Skin
<b>Acute toxicity</b>	
Acute oral toxicity (LD50)	: 229 mg/kg Species: Rat
Acute oral toxicity (LD50)	: 366 mg/kg Species: Rat
Acute dermal toxicity (LD50)	: 421 mg/kg Species: Rabbit Exposure time: 24.0 h GLP: yes
Acute dermal toxicity (LD50)	: 645 mg/kg Species: Rabbit
Acute dermal toxicity (LD50)	: 204 mg/kg Species: Rabbit

**Skin corrosion/irritation**

Skin irritation	: Corrosive Species: Rabbit Exposure time: 4 h Method: DOT GLP: yes
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**Serious eye damage/eye irritation**

Eye irritation	: Corrosive Species: Rabbit Exposure time: 24 h Assessment: Risk of serious damage to eyes. Method: DOT
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**Respiratory or skin sensitisation**

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Sensitisation : Test Type: Buehler Test  
Species: Guinea pig  
Result: not sensitizing  
GLP: yes

**Germ cell mutagenicity**

Genotoxicity in vitro : not mutagenic  
Ames test, Salmonella

not mutagenic  
Chinese hamster ovary cells

**Carcinogenicity**

Carcinogenicity : Result: no data available

**Reproductive toxicity**

Effects on fertility : Remarks: no data available

**STOT - single exposure**

Remarks: no data available

**STOT - repeated exposure**

Remarks: no data available

**Aspiration toxicity**

No aspiration toxicity classification

**Further information**

Remarks: Information given is based on data on the components and the toxicology of similar products. No data is available on the product itself.

Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.  
Solvents may degrease the skin.

**The following toxicological data refer to:**

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides** (CAS-No.: 68424-85-1)

**Acute toxicity**

Acute oral toxicity (LD50) : ca. 344 mg/kg  
Species: Rat

Acute inhalation toxicity (LC50) : 21,500 mg/l  
Species: Rat  
Exposure time: 1 h  
Test atmosphere: dust/mist Method: DOT



**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Acute dermal toxicity (LD50) : ca. 3,340 mg/kg  
Species: Rabbit  
Exposure time: 24 h

**Skin corrosion/irritation**

Skin irritation : Causes burns.  
Species: Rabbit  
Exposure time: 24 h  
Method: DOT

**Serious eye damage/eye irritation**

Eye irritation : Corrosive  
Species: Rabbit  
Method: DOT

**Respiratory or skin sensitisation**

Sensitisation : Test Type: Buehler Test  
Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406  
Result: not sensitizing  
GLP: yes

**Germ cell mutagenicity**

Genotoxicity in vitro : negative  
Ames test, Salmonella typhimurium  
Metabolic activation: yes  
Method: OECD Test Guideline 471  
GLP: yes

negative  
Chromosome aberration test in vitro, Human lymphocytes  
Metabolic activation: yes  
Method: OECD Test Guideline 473  
GLP: yes

**Didecyldimethylammonium chloride** (CAS-No.: 7173-51-5)**Acute toxicity**

Acute oral toxicity (LD50) : 238 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity (LD50) : 3,342 mg/kg  
Species: Rabbit

**Skin corrosion/irritation**

Skin irritation : Mild skin irritation  
Species: Rabbit  
Exposure time: 3 min  
Assessment: Causes burns.  
Method: OECD Test Guideline 404  
GLP: yes

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**Respiratory or skin sensitisation**

Sensitisation : Test Type: Buehler Test  
Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: US-EPA  
Result: not sensitizing  
GLP: yes

**Germ cell mutagenicity**

Genotoxicity in vitro : negative  
Ames test, Salmonella typhimurium  
Metabolic activation: yesMethod: OECD Test Guideline 471  
GLP: yes

negative  
Chromosome aberration test in vitro, Chinese hamster ovary cells  
Metabolic activation: yesGLP: yes

negative  
Gene mutation, Chinese hamster ovary cells  
Metabolic activation: yesGLP: yes

Genotoxicity in vivo : negative  
Chromosome aberration test in vivo  
Application Route: Oral  
Species: Rat  
Dose: 600 mg/kgMethod: OECD Test Guideline 475  
GLP: yes

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (EC50) : 0.058 mg/l  
Species: Daphnia magna (Water flea)  
Exposure time: 48 h

**Persistence and degradability**

Biodegradability : Test Type: Modified Sturm Test  
Biodegradation: 99 %  
Exposure time: 28 d  
Method: US-EPA  
GLP: yes

**Bioaccumulative potential**

Bioaccumulation : Remarks: no data available

**Components:****Ethanol**

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Partition coefficient: n-octanol/water : log Pow: -0.3

**Mobility in soil**

Distribution among environmental compartments : Remarks: no data available

**Other adverse effects**

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.

An environmental hazard cannot be excluded in the event of un-professional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

**The following ecotoxicological data refer to:**

**Didecyldimethylammonium chloride** (CAS-No.: 7173-51-5)

**Ecotoxicity**

- Toxicity to fish (LC50) : 0.19 mg/l  
Species: Pimephales promelas (fathead minnow)  
Acute toxicity  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: US-EPA  
GLP: yes
- Toxicity to fish (NOEC) : 0.032 mg/l  
Species: Danio rerio (zebra fish)  
Chronic toxicity  
Exposure time: 34 d  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (EC50) : 0.062 mg/l  
Species: Daphnia magna (Water flea)  
Immobilization  
Exposure time: 48 h  
Analytical monitoring: yes  
Method: EPA-FIFRA  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (NOEC) : 0.014 mg/l  
Species: Daphnia magna (Water flea)  
Exposure time: 21 d  
Remarks: Geometric mean of multiple studies of equivalent relevance/quality (EU Active Substance Assessment Report, June 2015).

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Toxicity to algae (ErC50)	:	0.026 mg/l Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Exposure time: 96 h Test Type: Growth inhibition Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to bacteria (EC50)	:	11 mg/l  Species: activated sludge Respiration inhibition Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms	:	NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 GLP: yes
Plant toxicity	:	EC50: 283 - 1,670 mg/kg Exposure time: 14 d End point: Growth inhibition Method: OECD Test Guideline 208

**Persistence and degradability**

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**Biodegradability**

: Test Type: Modified Sturm Test  
Concentration: 10 mg/l  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

Test Type: Die-Away Test  
Concentration: 0.016 mg/l  
Biodegradation: 93.3 %  
Exposure time: 28 d  
GLP: yes

Test Type: OECD Confirmatory Test  
Biodegradation: 91 %  
Exposure time: 24 - 70 d  
Method: OECD Test Guideline 303 A  
GLP: no

Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Stability in water**

: Test Type: Abiotic degradation  
Method: EPA-FIFRA  
GLP: yes

**Bioaccumulative potential**

no data available

**Mobility in soil**

Distribution among environmental compartments : Mobile in soils  
Method: US-EPA

**Other adverse effects**

no data available

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides** (CAS-No.: 68424-85-1)**Ecotoxicity**

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Toxicity to fish (LC50)	: 0.28 mg/l Species: Pimephales promelas (fathead minnow) Acute toxicity Exposure time: 96 h Analytical monitoring: yes Method: US-EPA GLP: yes
Toxicity to fish (NOEC)	0.032 mg/l Species: Pimephales promelas (fathead minnow) Early-life Stage Exposure time: 34 d Analytical monitoring: yes Method: EPA-FIFRA GLP: yes
Toxicity to daphnia and other aquatic invertebrates (EC50)	: 0.016 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (NOEC)	: 0.0042 mg/l Species: Daphnia magna (Water flea) Reproduction Test Exposure time: 21 d Analytical monitoring: yes Method: EPA-FIFRA GLP: yes
Toxicity to algae (ErC50)	: 0.049 mg/l Species: Pseudokirchneriella subcapitata (green algae) Cell multiplication inhibition test Exposure time: 72 h Test Type: Cell multiplication inhibition test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to algae (EC50)	0.12 mg/l Species: Lemna gibba Growth inhibition Exposure time: 7 d Test Type: Growth inhibition Analytical monitoring: yes Method: US-EPA

**Bardac™ 208M**

Version 2.2

SDS Number: 00000001375

Revision Date: 2018.06.22

Toxicity to algae (ErC50)	0.089 mg/l Species: algae Growth inhibition Exposure time: 96 h Test Type: Growth inhibition Analytical monitoring: yes Method: US-EPA GLP: yes
M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 1
Toxicity to bacteria (EC50)	: 7.75 mg/l  Species: activated sludge Respiration inhibition Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): 7,070 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207  EC50: > 1,000 mg/kg Exposure time: 28 d Method: OECD Test Guideline 216 GLP: yes
Plant toxicity	: EC50: 277 - 1,900 mg/kg Exposure time: 14 d End point: Growth inhibition Method: OECD Test Guideline 208

**Persistence and degradability**

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

Biodegradability : Test Type: OECD Confirmatory Test  
Biodegradation: > 90 %  
Method: OECD Test Guideline 303 A

Test Type: Modified SCAS Test  
Biodegradation: > 99 %  
Exposure time: 7 d  
Method: OECD Test Guideline 302 A  
GLP: yes

Test Type: CO2 Evolution Test  
Concentration: 5 mg/l  
Result: Readily biodegradable.  
Biodegradation: 95.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: no

Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Stability in water : Method: EPA-FIFRA  
GLP: yes  
Remarks: hydrolytically stable

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of contents/container in accordance with local regulation.  
Contact waste disposal services.  
Do not dispose of waste into sewer.  
The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.



Bardac™ 208M

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**SECTION 14. TRANSPORT INFORMATION****IATA**

**UN number** : 2920  
**Proper shipping name** : Corrosive liquid, flammable, n.o.s.  
(Quaternary ammonium compounds, Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Labels** : 8 (3)  
**Environmental hazards** : no

**IMDG**

**UN number** : 2920  
**Proper shipping name** : Corrosive liquid, flammable, n.o.s.  
(Quaternary ammonium compounds, Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Labels** : 8 (3)  
**EmS Number 1** : F-E  
**EmS Number 2** : S-C  
**Environmental hazards** : Marine pollutant: yes

**ADR**

**UN number** : 2920  
**Proper shipping name** : CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
(Quaternary ammonium compounds, Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Classification Code** : CF1  
**Hazard Identification Number** : 83  
**Labels** : 8 (3)  
**Environmental hazards** : yes

**RID**

**UN number** : 2920  
**Proper shipping name** : CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
(Quaternary ammonium compounds, Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Classification Code** : CF1  
**Hazard Identification Number** : 83  
**Labels** : 8 (3)  
**Environmental hazards** : yes

## Bardac™ 208M

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

## DOT

**UN number** : 1903  
**Proper shipping name** : Disinfectants, liquid, corrosive n.o.s.  
 (Quaternary ammonium compounds)  
**Transport hazard class** : 8  
**Packing group** : II  
 Labels : 8  
 Emergency Response Guidebook : 153  
 Number  
**Environmental hazards** : no

## TDG

**UN number** : 2920  
**Proper shipping name** : CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
 (Quaternary ammonium compounds, Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
 Labels : 8 (3)  
**Environmental hazards** : no

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

## SECTION 15. REGULATORY INFORMATION

**WHMIS Classification** : E: Corrosive Material  
B2: Flammable liquid

## EPCRA - Emergency Planning and Community Right-to-Know Act

## SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

## SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## US State Regulations

## Massachusetts Right To Know

Components	CAS-No.
Ethanol	64-17-5

**Bardac™ 208M**

Version 2.2

SDS Number: 000000001375

Revision Date: 2018.06.22

**Pennsylvania Right To Know**

Components	CAS-No.
Ethanol	64-17-5

**Pennsylvania Right To Know**

Components	CAS-No.
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1
Ethanol	64-17-5
Water	7732-18-5

**New Jersey Right To Know**

Components	CAS-No.
Ethanol	64-17-5

**New Jersey Right To Know**

Components	CAS-No.
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1
Ethanol	64-17-5
Water	7732-18-5

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16. OTHER INFORMATION**

Revision Date : 2018.06.22

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.