Printing date 06/05/2015

Reviewed on 06/05/2015

1 Identification

- · Product identifier
- · Trade name: Marine 823 Hardener
- · Article number: 1823089
- · Application of the substance / the mixture Epoxy curing agent
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Company Name: Axson USA, Inc.

Headquarters: 31200 Stephenson Hwy Madison Heights, MI 48071 USA

ehs-us@axson.com

- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1(248) 588-2270 Chemtec 24-hour Emergency: +1 (800) 424-9300

2 Hazard(s) identification

	f the substance or mixture 06 Skull and crossbones
Acute Tox. 3	H331 Toxic if inhaled.
GHS	08 Health hazard
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Repr. 1B	H360 May damage fertility or the unborn child.
	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
$\mathbf{\vee}$	05 Corrosion H314 Causes severe skin burns and eye damage.
GHS	09 Environment
Aquatic Chroni	c 2 H411 Toxic to aquatic life with long lasting effects.
GHS	07
Acute Tox. 4	H312 Harmful in contact with skin.
Skin Sens. 1	H317 May cause an allergic skin reaction. (Contd. on page

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STOT SE 3	H335 May cause respiratory irritation.	(Contd. of page 1)
· Label elements · GHS label elen · Hazard pictogr	nents The product is classified and labeled according to the Globally Harmonized S	ystem (GHS).
\wedge		
LE R		
GHS05 GH	IS06 GHS08 GHS09	
• Signal word Da	anger	
• Hazard-determ Polyoxypropyle	nining components of labeling: enediamine	
alpha-(2-Amine	omethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl))	
3,6-diazaoctan		
	products with propylene oxide	
	<i>Triethylenetetramine</i>	
bisphenol A • Hazard stateme	onte	
Harmful in con		
Toxic if inhaled		
	skin burns and eye damage.	
	rgy or asthma symptoms or breathing difficulties if inhaled.	
	allergic skin reaction.	
	ertility or the unborn child.	
May cause resp	piratory irritation.	
	ic life with long lasting effects.	
· Precautionary		
Do not breathe		
Wear respirato		
Wear protective		
	e gloves / protective clothing.	
	ection / face protection.	
	o the environment.	
	aly after handling. Fors or in a well-ventilated area.	
	work clothing must not be allowed out of the workplace.	
	instructions before use.	
-	until all safety precautions have been read and understood.	
	r hair): Remove/Take off immediately all contaminated clothing. Rinse skin with wa	ter/shower.
	se cautiously with water for several minutes. Remove contact lenses, if present of	
Continue rinsin	ıg.	
•	ıll a poison center/doctor.	
	ent (see on this label).	
	Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	nated clothing before reuse.	
	concerned: Get medical advice/attention.	
v	n or rash occurs: Get medical advice/attention.	
Collect spillage	Rinse mouth. Do NOT induce vomiting.	
	e. ninated clothing and wash it before reuse.	
Store locked up		
	ventilated place. Keep container tightly closed.	
		(Contd. on page 3)

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Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4)	(Contd. of page 2)
Health = 3 Fire = 1 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH14FIRE1Fire = 1REACTIVITY $\boxed{0}$ Reactivity = 0	
 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 	

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
CAS: 112-24-3 EINECS: 203-950-6	3,6-diazaoctanethylenediamin	25-50%
CAS: 9046-10-0	Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl- 1,2-ethanediyl))	25-50%
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-ylethylamine	10 - 20%
CAS: 26950-63-0	Teta, reaction products with propylene oxide Polyoxylated Triethylenetetramine	5-<10%
CAS: 111-40-0 EINECS: 203-865-4	2,2'-iminodiethylamine	1-<5%
CAS: 80-05-7 EINECS: 201-245-8	bisphenol A	1-<5%
CAS: 111-41-1 EINECS: 203-867-5	2-(2-aminoethylamino)ethanol	0.1-<0.5%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

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(Contd. of page 3)

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:

Trade name: Marine 823 Hardener

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

112-24-3 3,6-diazaoctanethylenediamin

WEEL Long-term value: 6 mg/m³, 1 ppm Skin

111-40-0 2,2'-iminodiethylamine

REL Long-term value: 4 mg/m³, 1 ppm Skin TLV Long-term value: 4.2 mg/m³, 1 ppm Skin

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
- *Immediately remove all soiled and contaminated clothing.*
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Amber colored · Odor: Amine-like · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** 220 °C (428 °F) 102 °C (216 °F) · Flash point: Not applicable. · Flammability (solid, gaseous): 315 °C (599 °F) · Ignition temperature: · Decomposition temperature: Not determined. Product is not selfigniting. · Auto igniting: · Danger of explosion: Product does not present an explosion hazard. · Explosion limits: 0.7 Vol % Lower: 10.5 Vol % Upper: 0.1 hPa · Vapor pressure at 20 °C (68 °F): • Density at 20 •C (68 •F): 0.97443 g/cm³ (8.132 lbs/gal) · Relative density Not determined. · Vapour density Not determined. Not determined. · Evaporation rate · Solubility in / Miscibility with Not miscible or difficult to mix. Water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Solvent content: 0.0 % **Organic** solvents: Solids content: 1.1% (Contd. on page 7)

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Trade name: Marine 823 Hardener

• Other information

No further relevant information available.

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

Oral I Dermal I Oral I Dermal I 9046-10- Oral I Dermal I 140-31-8	0 values that are relevant for classification: LD50 2880 mg/kg (rat) LD50 2980 mg/kg (rabit) 3 .6-izaoctanethylenediamin LD50 2500 mg/kg (rat) LD50 2500 mg/kg (rat) LD50 805 mg/kg (rabbit) -0 Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) LD50 2140 mg/kg (rat)
Dermal I 112-24-3 I Oral I Dermal I 9046-10- I Oral I Dermal I Oral I Dermal I Oral I	LD50 2980 mg/kg (rabbit) 3 3,6-dizaoctanethylenediamin LD50 2500 mg/kg (rat) LD50 805 mg/kg (rabbit) -0 Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) 8 2-piperazin-1-ylethylamine
112-24-3 Oral Dermal 9046-10- Oral Dermal 140-31-8 Oral	3.6-diazaoctanethylenediamin LD50 2500 mg/kg (rat) LD50 805 mg/kg (rabbit) -0 Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) R 2-piperazin-1-ylethylamine
Oral I Dermal I 9046-10- Oral I Dermal I 140-31-8 Oral I	LD50 2500 mg/kg (rat) LD50 805 mg/kg (rabbit) -0 Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) 82-piperazin-1-ylethylamine
Dermal I 9046-10- I Oral I Dermal I 140-31-8 I Oral I	LD50 805 mg/kg (rabbit) •0 Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) 8 2-piperazin-1-ylethylamine
9046-10- Oral 1 Dermal 1 140-31-8 Oral 1	-0 Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) 8 2-piperazin-1-ylethylamine
Oral Dermal 140-31-8 Oral	alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) 8 2-piperazin-1-ylethylamine
Dermal 1 140-31-8 Oral 1	LD50 2855 mg/kg (rabbit) LD50 2980 mg/kg (rabbit) 8 2-piperazin-1-ylethylamine
Dermal 1 140-31-8 Oral 1	LD50 2980 mg/kg (rabbit) 8 2-piperazin-1-ylethylamine
140-31-8 Oral	8 2-piperazin-1-ylethylamine
Oral 1	
	LD50/2140 mg/kg (rat)
Dermal	LDJO [2140 mg/kg (10i)]
	LD50 880 mg/kg (rabbit)
 on the ey Strong ca Strong iri Sensitizat Sensitizat Additiona The produce Toxic Harmful Corrosive Irritant 	austic effect. rritant with the danger of severe eye injury. ution: ution possible through inhalation. ution possible through skin contact. val toxicological information: luct shows the following dangers according to internally approved calculation methods for preparation

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

• *NTP* (*National Toxicology Program*) None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity:

96 hr LC50 >220 mg/l (Fish)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· UN-Number		
·DOT	NA2735	
· IMDG, IATA	UN2735	

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	(Contd. of page
UN proper shipping name	
DOT	Amines, liquid, corrosive, n.o.s. (Triethylenetetramin Polyoxypropylenediamine
	alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy
IMDG	poly(oxy(methyl-1,2-ethanediyl))) AMINES, LIQUID, CORROSIVE, N.O.
Indo	(TRIETHYLENETETRAMINE, Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy poly(oxy(methyl-1,2-ethanediyl))), MARINE POLLUTANT
IATA	A M I N E S, LIQUID, CORROSIVE, N.O., (TRIETHYLENETETRAMINE, Polyoxypropylenediamine alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy poly(oxy(methyl-1,2-ethanediyl)))
Transport hazard class(es)	
DOT	
CORROSIVE 8	
Class Label	8 Corrosive substances 8
· IMDG	
Class Label	8 Corrosive substances 8
	0
IATA	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substance Polyoxypropylenediamine
Maring pollutant.	alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy poly(oxy(methyl-1,2-ethanediyl)) Yes
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80 E A S B
EMS Number:	F- A , S - B

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	(Contd. of page
· Segregation groups	Alkalis
• Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
· Remarks:	Special marking with the symbol (fish and tree).
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN2735, Amines, liquid, corrosive, n.o.s. (Triethylenetetramine
-	Polyoxypropylenediamine
	alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy,
	poly(oxy(methyl-1,2-ethanediyl))), ENVIRONMENTALL
	HAZARDOUS, 8, II

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

80-05-7 bisphenol A

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

 \cdot Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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	(Contd. of page 10
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
GHS label elements The product is classified and labeled according to the Globally Ha Hazard pictograms	armonized System (GHS).
GHS05 GHS06 GHS08 GHS09	
Signal word Danger	
Hazard-determining components of labeling:	
Polyoxypropylenediamine	
alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethand	ediyl))
3,6-diazaoctanethylenediamin	
Teta, reaction products with propylene oxide	
Polyoxylated Triethylenetetramine	
bisphenol A	
Hazard statements	
Harmful in contact with skin.	
Toxic if inhaled.	
Causes severe skin burns and eye damage.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
May damage fertility or the unborn child.	
May cause respiratory irritation.	
Toxic to aquatic life with long lasting effects. Precautionary statements	
Do not breathe dusts or mists.	
Wear respiratory protection.	
Wear protective gloves.	
Wear protective gloves / protective clothing.	
Wear eye protection / face protection.	
Avoid release to the environment.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse s	kin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,	if present and easy to de
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for	breathing.
Wash contaminated clothing before reuse.	
<i>IF exposed or concerned: Get medical advice/attention.</i>	
If skin irritation or rash occurs: Get medical advice/attention.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
Collect spillage. Take off contaminated clothing and wash it before rause	
Take off contaminated clothing and wash it before reuse.	
Store locked up. Store in a well-ventilated place. Keep container tightly closed.	
store in a wea-ventuated place. Keep container ugnity closed.	(Contd. on page 12

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Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 06/05/2015 / -

· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internati	onal
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Acute Tox. 3: Acute toxicity, Hazard Category 3	
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B	
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1	
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
Repr. 1B: Reproductive toxicity, Hazard Category 1B	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
	USA —