

Safety Data Sheet
acc. to OSHA HCS

Printing date 12/03/2014

Version 9

Reviewed on 12/03/2014

*** 1 Identification of the substance/mixture and of the company/undertaking**

Product identifier Powercrete DD Part B

Trade name: Powercrete DD Part B

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

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC9a Coatings and paints, thinners, paint removers

Process category

PROC10 Roller application or brushing

PROC11 Non industrial spraying

Environmental release category

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Application of the substance / the mixture Epoxy curing agent

Uses advised against -

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Seal For Life Industries - Powercrete™

Contact details

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Tel +31 599 696 170, Fax +31 599 696 177, info@sealforlife.com

Information department: Product safety department of manufacturer / supplier

Emergency telephone number:

For worldwide emergency assistance call CHEMTREC (24 hours):
Within USA/Canada 1-800-424-9300; Outside USA/Canada +1 703-527-3887 (collect calls accepted)

*** 2 Hazard(s) identification**

Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Repr. 1A H360 May damage fertility or the unborn child.
STOT SE 1 H370-H335 Causes damage to the lung, the kidneys, the liver and the respiratory system. Route of exposure: Oral, Inhalative. May cause respiratory irritation.

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GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05



GHS06



GHS08

Signal word Danger

Hazard-determining components of labeling:

2,2'-iminodiethylamine
bisphenol A
Polyethylene Polyamine 1 (proprietary)
3-aminomethyl-3,5,5-trimethylcyclohexylamine

Hazard statements

Harmful if swallowed or in contact with skin.
Fatal 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.
Causes damage to the lung, the kidneys, the liver and the respiratory system. Route of exposure: Oral, Inhalative. May cause respiratory irritation.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Do not breathe dusts or mists.
Wear respiratory protection.
Wear protective gloves.
Wear protective gloves / protective clothing.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
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 skin with water/shower.
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.
Specific treatment is urgent (see on this label).

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If experiencing respiratory symptoms: Call a poison center/doctor.
If swallowed: Call a poison center/doctor if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not available.
vPvB: Not available.

*** 3 Composition/information on ingredients**

Chemical characterization: Mixtures

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

Dangerous components:		
111-40-0	2,2'-iminodiethylamine ⚠ Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
80-05-7	bisphenol A ⚠ Repr. 2, H361; ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	25-50%
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	5.0-10%
	Polyethylene Polyamine 1 (proprietary) ⚠ Acute Tox. 2, H300; Acute Tox. 3, H311; ⚠ Resp. Sens. 1, H334; Repr. 1B, H360; STOT SE 1, H370-H335; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	1.0-2.5%
	Polyethylene Polyamine 2 (proprietary) ⚠ Acute Tox. 3, H311; ⚠ Resp. Sens. 1, H334; Repr. 1A, H360; STOT SE 1, H370-H335; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	1.0-2.5%

*** 4 First-aid measures**

Description of first aid measures

General information:

Take affected persons out of danger area and lay down.
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.

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After inhalation:

Call a doctor immediately.
Take affected persons into fresh air and keep quiet.
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Call a doctor immediately.
Remove contaminated clothing
Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Call a doctor immediately.
Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Call a doctor immediately.
Do not induce vomiting
Rinse mouth with water
Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing
Immediately call a doctor.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Most important symptoms and effects, both acute and delayed

Breathing difficulty
Coughing
Asthma attacks
Allergic reactions

Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

*** 5 Fire-fighting measures**

Extinguishing media

Suitable extinguishing agents:

Water haze
Foam
Fire-extinguishing powder
Carbon dioxide

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:

Nitrogen oxides (NO_x)
nitrogen containing compounds
Carbon monoxide (CO)
Carbon dioxide (CO₂)

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

*** 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources
Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to penetrate the ground/soil.
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.

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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**

Precautions for safe handling

At all times avoid inhalation of the product and contact with skin and eyes

Ensure appropriate ventilation/exhaust 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: Store away from oxidizing agents.

Further information about storage conditions:

Store in a dry, cool, well ventilated place

Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

*** 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:

111-40-0 2,2'-iminodiethylamine	
REL	Long-term value: 4 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 4.2 mg/m ³ , 1 ppm Skin
Polyethylene Polyamine 1 (proprietary)	
AIHA WEEL TWA	Long-term value: 1 ppm
Polyethylene Polyamine 2 (proprietary)	
ACGIH TLV TWA	Long-term value: 4.2 mg/m ³ , 1 ppm

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 and skin.

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Breathing equipment:

Self-contained respiratory protective device.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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

Material of gloves

Recommended material:
Butyl rubber, BR

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.

Eye protection:



Tightly sealed goggles

Body protection: Impervious protective clothing

*** 9 Physical and chemical properties**

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Fluid
Color:	Light brown
Odor:	Amine-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	> 93 °C (> 199 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	325 °C (617 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	1.0 Vol %

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Upper:	10.0 Vol %
Vapor pressure at 20 °C (68 °F):	0.5 hPa
Density at 20 °C (68 °F):	1.01 g/cm ³ (8.428 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
Other information	The material polymerizes to 100% solids, after mixing and reaction with the corresponding "Part A" of the product.

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Reacts with acids.

Reacts with alkali (lyes).

Conditions to avoid No further relevant information available.

Incompatible materials:

Reacts with oxidizing agents.

Reacts with strong acids.

Strong alkalines

Hazardous decomposition products:

Nitrogen oxides

Carbon monoxide

Nitrogen containing compounds

* 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

111-40-0 2,2'-iminodiethylamine		
Oral	LD50	1553 mg/kg (rat)
Dermal	LD50	1045 mg/kg (rabbit)
Inhalative	LC50/4h	0.3 mg/l (rat) (OECD Guideline 403)
80-05-7 bisphenol A		
Oral	LD50	3250 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
Oral	LD50	1030 mg/kg (rat) (OECD 401 (similar))

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Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4h	>5 mg/l (rat) (OECD 403)
Polyethylene Polyamine 1 (proprietary)		
Oral	LD50	38.5 mg/kg (mouse) 1080 mg/kg (rat) 5500 mg/kg (rabbit)
Dermal	LD50	675 mg/kg (rabbit)
Polyethylene Polyamine 2 (proprietary)		
Oral	LD50	2800 mg/kg (rat)
Dermal	LD50	550 mg/kg (rabbit)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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:

111-40-0 2,2'-iminodiethylamine

EC50/48h 16 mg/l (Daphnia magna) (DIN 38412, part 11)

LC50/96h 430 mg/l (fish)

80-05-7 bisphenol A

EC50/48h (static) 10.2 mg/l (Daphnia magna)

EC50/96h (static) 2.73 mg/l (Algae - Pseudokirchneriella subcapitata)

LC50/96h (dynamic) 11 mg/l (Fish - Cyprinodon variegatus) (OECD nr. 203)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC50/48h 23 mg/l (Daphnia magna)

EC50/72h 37 mg/l (Algae - Scenedesmus subspicatus)

LC50/96h 110 mg/l (Fish - Leuciscus idus)

NOEC/21days 3 mg/l (Daphnia magna)

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

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Ecotoxicological effects:

Remark: Harmful to 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.
Harmful to aquatic organisms

Results of PBT and vPvB assessment

PBT: Not available.

vPvB: Not available.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:


Dispose safely in accordance with local and national legislations
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.

Recommended cleansing agent: Water, if necessary with cleansing agents.

*** 14 Transport information**

UN-Number DOT, ADR, IMDG, IATA	UN2735
UN proper shipping name DOT	Polyamines, liquid, corrosive, n.o.s. (Diethylenetriamine, Isophoronediamine)
ADR	2735 Polyamines, liquid, corrosive, n.o.s. (Diethylenetriamine, Isophoronediamine)
IMDG, IATA	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (DIETHYLENTRIAMINE, ISOPHORONEDIAMINE)
Transport hazard class(es)	
DOT	
	
Class	8 Corrosive substances
Label	8

ADR, IMDG, IATA	
	
Class	8 Corrosive substances
Label	8

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Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler): EMS Number: Segregation groups	Warning: Corrosive substances 80 F-A,S-B 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
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN2735, Polyamines, liquid, corrosive, n.o.s. (Diethylenetriamine, Isophoronediamine), 8, II

***15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture
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):

111-40-0	2,2'-iminodiethylamine
80-05-7	bisphenol A
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine
	Polyethylene Polyamine 1 (proprietary)
	Polyethylene Polyamine 2 (proprietary)

Proposition 65

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.

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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.
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 Harmonized System (GHS).

Hazard pictograms



Signal word Danger

Hazard-determining components of labeling:

2,2'-iminodiethylamine
bisphenol A
Polyethylene Polyamine 1 (proprietary)
3-aminomethyl-3,5,5-trimethylcyclohexylamine

Hazard statements

Harmful if swallowed or in contact with skin.
Fatal 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.
Causes damage to the lung, the kidneys, the liver and the respiratory system. Route of exposure: Oral, Inhalative. May cause respiratory irritation.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Do not breathe dusts or mists.
Wear respiratory protection.
Wear protective gloves.
Wear protective gloves / protective clothing.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
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 skin with water/shower.
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.
Specific treatment is urgent (see on this label).
If experiencing respiratory symptoms: Call a poison center/doctor.
If swallowed: Call a poison center/doctor if you feel unwell.

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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.

Department issuing SDS: Product safety department

Contact:

Seal For Life Technologies & Services B.V.

Gasselterstraat 20, 9503JB Stadskanaal, the Netherlands

Tel: +31 599 696 170; Fax: +31 599 696 177; Email: info@sealforlife.com

Date of preparation / last revision 12/03/2014 / 8

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International 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

Acute Tox. 2: Acute toxicity, Hazard Category 2

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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. 1A: Reproductive toxicity, Hazard Category 1A

Repr. 1B: Reproductive toxicity, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

*** Data compared to the previous version altered.**