

SAFETY DATA SHEET BELZONA® 1392 (CERAMIC HT2) BASE

SECTION 1: Identification o	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	BELZONA® 1392 (CERAMIC HT2) BASE
Product number	SN2405, SN2577
1.2. Relevant identified uses	s of the substance or mixture and uses advised against
Identified uses	High temperature acid resistant coating. For industrial use only.
Uses advised against	The product should not be used for purposes other than those recommended in the appropriate Instructions For Use (IFU) leaflet.
1.3. Details of the supplier of	of the safety data sheet
Supplier	Belzona Polymerics Limited Claro Road, Harrogate HG1 4DS United Kingdom +44 1423 567641 sds@belzona.com
Manufacturer	Belzona Polymerics Limited Claro Road, Harrogate HG1 4DS United Kingdom +44 1423 567641 sds@belzona.com
1.4. Emergency telephone r	number
Emergency telephone	VelocityEHS: +1 813-248-0585
SECTION 2: Hazards identi	fication
2.1. Classification of the sub	ostance or mixture
Classification (SI 2019 No.	720)
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Carc. 2 - H351
Environmental hazards	Aquatic Chronic 2 - H411
Reference	The full text for all hazard statements is displayed in Section 16.
2.2. Label elements	
Hazard pictograms	
Signal word	Warning

Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.
	H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 P202 Do not handle until all safety precautions have been read and understood. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water. P308+P313 IF exposed or concerned: Get medical attention.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains	EPOXY PHENOL NOVOLAC RESIN, FURFURYL ALCOHOL

2.3. Other hazards

Based on information received from our suppliers no PBT or vPvB substances are intentionally added to this product. This product does not contain components considered to have endocrine disrupting properties at $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EPOXY PHENOL NOVOLAC RESIN		10-30%
CAS number: 28064-14-4		
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		
FURFURYL ALCOHOL		1-5%
CAS number: 98-00-0	EC number: 202-626-1	
Classification		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
Eye Irrit. 2 - H319		
Carc. 2 - H351		
STOT SE 3 - H335		
STOT RE 2 - H373		

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air. Keep the patient warm and at rest. Give nothing by mouth.
Ingestion	If accidentally swallowed obtain immediate medical attention. Keep at rest. Rinse mouth with plenty of water. Do NOT induce vomiting.

Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. If irritation or inflammation persists, seek medical attention.	
Eye contact	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.	
4.2. Most important symptoms	and effects, both acute and delayed	
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system. Inhalation of vapour may result in symptoms of headache and nausea.	
Skin contact	Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed. May cause allergic skin reaction.	
Eye contact	Irritating to eyes.	
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	None.	
SECTION 5: Firefighting measurements	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Use: sand, alcohol resistant foam, carbon dioxide, chemical powder, or water fog for larger fires. Do NOT use water jet.	
5.0. On a sint harmonda a sining f		
5.2. Special hazards arising fr Hazardous combustion	In a fire, hazardous decomposition products such as smoke, carbon monoxide and carbon	
products	dioxide may be produced.	
5.3. Advice for firefighters		
Protective actions during firefighting	Fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.	
SECTION 6: Accidental release	se measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	Exclude non-essential personnel. Keep up-wind of spill to avoid breathing vapours. Do not get on skin or in eyes.	
6.2. Environmental precautions		
Environmental precautions	Prevent product entering drains or sewers. If the product enters drains or sewers in large quantities, the local Water Company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the appropriate National regulating agency.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	Scrape the majority of the product into a suitable labelled container. Cover the spill area with sand or other suitable inert material and sweep up into the container. Clean surfaces down with a water and detergent mixture. Do not allow spilled product or the associated washings to enter surface water drains or watercourses.	
6.4. Reference to other sectio	ns	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13. For information on National regulating agencies refer to Section 16.	

SECTION 7: Handling and storage

7.1. Precautions for safe handling Usage precautions Keep the container tightly closed when not in use. Vapours may collect in the container headspace during transit or prolonged storage. Do not breathe vapour when opening the container. Where possible open containers and mix components in a well ventilated place away from the application area. Exclude non-essential personnel. Minimise the number of employees exposed and the duration of their exposure. Do not get on skin or in eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Always keep in containers made of the same material as the supply container. Ensure emergency equipment (for fires, spills, leaks, etc.) is readily available. FIRE/EXPLOSION This product is combustible. Exclude sources of heat, sparks and open flame. Good housekeeping methods and regular safe removal of waste materials should be observed. 7.2. Conditions for safe storage, including any incompatibilities Storage precautions Observe the label precautions. Store between 5 °C and 30 °C unless otherwise stated in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. ENVIRONMENTAL STORAGE PRECAUTIONS Spillage, incorrect storage of chemicals or waste materials or unsuitable disposal activities can result in pollutants seeping through the soil, causing serious harm to groundwater- which is a vital source of drinking water. All wastes, especially liquid wastes, must be securely stored on site in designated areas that are isolated from surface drains and bunded to contain any spillages. 7.3. Specific end use(s) Specific end use(s) Application by stiff bristled brush or plastic applicator provided. Mix with Solidifier component before use. Please refer to the relevant Belzona® Instructions For Use for further information. SECTION 8: Exposure controls/Personal protection 8.1. Control parameters Ingredient comments Exposure to chemicals assigned occupational exposure limits (OELs) should be controlled using the most effective and reliable measures, proportional to the health risk, which minimise their escape and spread. All relevant exposure routes should be taken into account. When personal protective equipment, including respiratory protective equipment, is used to control exposure to hazardous substances it must be selected to meet the requirements of the COSHH Regulations. FURFURYL ALCOHOL (CAS: 98-00-0) DNEL Workers - Inhalation; Short term systemic effects: 2187 mg/m³ Workers - Inhalation; Short term local effects: 8 mg/m³ Workers - Dermal; Short term systemic effects: 5.6 mg/kg/day Workers - Inhalation; Long term systemic effects: 8 mg/m³ Workers - Inhalation; Long term local effects: 8 mg/m³ Workers - Dermal; Long term systemic effects: 4 mg/kg/day Consumer - Inhalation; Short term systemic effects: 1312 mg/m³ Consumer - Inhalation; Short term local effects: 0.82 mg/m³ Consumer - Dermal; Short term systemic effects: 3.3 mg/kg/day Consumer - Oral; Long term systemic effects: 4.4 mg/kg/day Consumer - Inhalation; Long term local effects: 0.82 mg/m³ Consumer - Inhalation; Long term systemic effects: 1.6 mg/m³

PNEC	Fresh water; 0.17 mg/l marine water; 0.017 mg/l Intermittent release; 1.7 mg/l Sediment (Freshwater); 0.861 mg/kg Sediment (Marinewater); 0.086 mg/kg Soil; 0.0724 mg/kg Secondary poisoning; 5.89 mg/kg food
8.2. Exposure controls Appropriate engineering controls	Use in well ventilated areas or provide adequate mechanical ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Where these controls are not sufficient to maintain concentrations of particulates and/or vapours to an acceptable level, suitable respiratory protective equipment should be worn (see 'Respiratory protection' below).
Eye/face protection	It is recommended that eye protection, for example safety spectacles or goggles are worn at all times during the handling and use of this material. Eye protection should be selected in accordance with EN 166 Personal eye protection.
Hand protection	Hand protection should be selected in accordance with EN 374 Protective gloves against chemicals. The breakthrough time of the gloves selected should exceed the expected use period. Where this is not possible gloves should be changed in good time, and in any case before the breakthrough time is exceeded. If any doubt exists, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred. SPECIFIC RECOMMENDATIONS Wear protective gloves made of the following material: Nitrile rubber. Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable.
Other skin and body protection	Synthetic polyethylene coveralls such as the Tyvek PRO-TECH® or equivalent coveralls manufactured to EN 13034 Type 6, Protective clothing against liquid chemicals. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Ensure eye wash facilities (fountain, bottle, vials, etc.) are readily available. Do not put contaminated articles or equipment e.g. spatulas, applicators, brushes, cloths etc., into pockets. Where necessary, contaminated work clothing and shoes should be removed to prevent cross contamination of surfaces and the risk of inadvertent skin contact and ingestion.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Respiratory protection is not normally required, but the hazards of the Solidifier component should be considered for mixing and application purposes. Respiratory protection is not normally required when this product is used in confined spaces or where adequate ventilation cannot be achieved. It is essential that the concentration of the contaminant(s) in the application environment does not exceed the applicable Occupational Exposure Limit(s) (OELs) multiplied by the Assigned Protection Factor (APF) quoted for the respiratory protective equipment selected. Where necessary, it is recommended that respiratory protective equipment that complies with EN 136 (full face mask) or EN 140 (half face mask) should be worn in combination with an organic/inorganic vapours, acid gases and ammonia cartridge (ABEK1). Where the application environment is likely to be contaminated by significant concentrations of dust then the appropriate particulate prefilter (N-, R- or, P-series) should be worn in combination with the above. It is essential that the facepiece is correctly fitted and the filter is changed in accordance with the manufacturer's instructions. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

9.1. Information on basic piyst-cit and chemical properties Appearance Paste. Colour Grey or Red. Odour Mentating. Odour Netaplicable. PH Not applicable. Initial boiling point and range >170°C/>338°F @ 100 kPa Flash point >105°C/>221°F Closed cup. Evaporation rate Not available. Flammability (solid, gas) Not applicable. Vapour pressure 0.05 kPa @ 20°C/68°F Vapour density <1 Relative density 2.42 - 2.52 @ 20°C/68°F Vapour density <1 Relative density 2.42 - 2.52 @ 20°C/68°F Vapour density <1 Relative density 2.42 - 2.52 @ 20°C/68°F Vapour flammabile. Soubility(fies) Partition coefficient log Kow: ≥ 4 Auto-ignition temperature >300°C/>200°C/>392°F Vapour preserties Not applicable. Explosive properties Not applicable. Oxidising properties Not applicable. Subbility of intermation This section contains typical values for Health, Safety and Environmental guidance only and is not intended to represent a technical specification for	SECTION 9: Physical and chemical properties		
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Possibility of hazardous Under normal conditions of storage and use, no hazardous reactions will occur. reactions 10.4. Conditions to avoid	Stability	Stable under recommended storage and handling conditions (see Section 7).	
reactions 10.4. Conditions to avoid			
	-	Under normal conditions of storage and use, no hazardous reactions will occur.	
Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.	10.4. Conditions to avoid		
	Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.	

10.5. Incompatible materials	
Materials to avoid	Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
10.6. Hazardous decompositio	n products
Hazardous decomposition products	None at ambient temperatures. In a fire, hazardous decomposition products such as smoke, carbon monoxide and carbon dioxide may be produced.
SECTION 11: Toxicological int	formation
11.1. Information on toxicologi	cal effects
Acute toxicity - oral Notes (oral LD₅o)	Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation Animal data	Irritating to skin.
Serious eye damage/irritation Serious eye damage/irritation	Irritating to eyes.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser. Repeated skin contact may lead to sensitisation with possibly cross-sensitisation to other epoxies.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.
Carcinogenicity Carcinogenicity	Suspected of causing cancer.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity - STOT - single exposure	single exposure Based on available data the classification criteria are not met.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Prolonged inhalation of high concentrations may damage respiratory system.
Aspiration hazard	

Aspiration hazard	Not relevant.
General information	This product does not contain components considered to have endocrine disrupting properties at $\geq 0.1\%$.
Route of exposure	Inhalation Skin and/or eye contact
Medical considerations	Skin contact constitutes a pronounced hazard. Persons with a history of skin sensitisation problems should only be employed in processes in which this product is used under appropriate medical supervision.

Toxicological information on ingredients.

EPOXY PHENOL NOVOLAC RESIN

Toxicological effects	@@@Repeated skin contact may lead to sensitization with possibly cross-
	sensitization to other epoxies.@@@

FURFURYL ALCOHOL

	Acute toxicity - oral		
	Acute toxicity oral (LD ₅₀ mg/kg)	132.0	
	Species	Rat	
	Acute toxicity - dermal		
	Acute toxicity dermal (L mg/kg)	D ₅₀ 400.0	
	Species	Rabbit	
	Acute toxicity - inhalatio	<u>n</u>	
	Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	0.82	
	Species	Rat	
	Carcinogenicity		
	Carcinogenicity	Suspected carcinogen based on limited evidence.	
SECTION 12	SECTION 12: Ecological information		
Ecotoxicity	There is no data on the product itself. The following information is provided on the basis of the individual component data available.		
12.1. Toxicit	<u>y</u>		
Toxicity	Based on the epoxy phenol novolac resin content, this product is expected to have experimental LC50/EC50/IC50 values between 1 and 10 mg/l in most sensitive species.		
Ecological information on ingredients.			
	EPOXY PHENOL NOVOLAC RESIN		
	Toxicity	LC50/EC50 between 1 and 10 mg/l in most sensitive species.	
12.2. Persist	12.2. Persistence and degradability		

Persistence and degradability	Based on the epoxy phenol novolac resin content, this product is not expected to be rapidly biodegradable according to OECD/EC guidelines.	
Ecological information on ingre	edients.	
	EPOXY PHENOL NOVOLAC RESIN	
Persistence and degradability	Not expected to be rapidly biodegradable according to OECD/EC guidelines. Biodegradation reached in Carbon Dioxide Evolution Test (Modified Sturm Test, OECD Test No. 301B) after 28 days: 10 - 16%.	
12.3. Bioaccumulative potentia	<u>u</u>	
Bioaccumulative potential	Based on the epoxy phenol novolac resin content, this product Log octanol/water partition coefficient (Log Kow) is expected to be greater than 4.0.	
Partition coefficient	log Kow: ≥ 4	
Ecological information on ingre	edients.	
EPOXY PHENOL NOVOLAC RESIN		
Bioaccumulative	potential ***US Only***	
12.4. Mobility in soil		
Mobility	There is no data available on the product itself.	
12.5. Results of PBT and vPvE	3 assessment	
Results of PBT and vPvB assessment	Based on information received from our suppliers no PBT or vPvB substances are intentionally added to this product.	
12.6. Other adverse effects		
Other adverse effects	This product does not contain components considered to have endocrine disrupting properties at $\ge 0.1\%$.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
General information	All cleaning activities including cleaning of equipment, floors and containers, can produce large volumes of contaminated waste. All cleaning agents used are potentially polluting. Water containing detergents, degreasers or any other cleaning agents must not be allowed to enter the surface water drains or soakaways. All water based cleaning/degreasing operations should be carried out in designated areas away from the surface water system and drained to the foul water system. Where this is not possible the surface water system should be isolated	

controlled safe disposal. Where water immiscible cleaners/degreasers are used for example solvents, the relevant product safety data sheet should be referred to for information on safe disposal.

by suitable damming techniques and the contaminated water collected and removed for

Disposal methods	GENERAL Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Controlled wastes include non-hazardous industrial and hazardous chemical wastes. All controlled wastes should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. In addition, hazardous chemical wastes should be disposed of in accordance with the Hazardous Waste Regulations. When in doubt, using information provided in this safety data sheet, advice should be obtained from the National regulating agency whether the Hazardous Waste Regulations apply. Refer to information sources listed in Section 16. COMPONENT DISPOSAL TRANSIT PACKAGING: shrink or stretch wrap, boxes and fittings that have not been contaminated with product should be re-used or recycled. UNREACTED PRODUCT and empty uncleaned containers should be disposed of as hazardous chemical waste. REACTED PRODUCT, contaminated mixing boards, spatulas, applicators, brushes, nominally empty containers and mixing bowls- once fully cured- should be disposed of as non-hazardous waste.	
Waste class	List of Waste (LoW) code: 08 01 11*. *Hazardous waste pursuant to Directive 91/689/EEC. The LoW code quoted in this section is a general entry. LoW codes should be assigned based on the end use of the product. Where a more specific code is available it should be used in preference to the code given above. Where in doubt refer to the List of Wastes, your local licensed waste contractor or the National regulating agency. Refer to information sources listed in Section 16.	
SECTION 14: Transport information		
General	Labelling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations. Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.	
14.1. UN number		
UN No. (ADR/RID)	3082	
UN No. (IMDG)	3082	

14.2. UN proper shipping name

3082

UN No. (ICAO)

Proper shipping name (ADR/RID)	Environmentally hazardous substance, liquid, n.o.s. (containing Epoxy phenol novolac resin mixture)	
Proper shipping name (IMDG)	Environmentally hazardous substance, liquid, n.o.s. (containing Epoxy phenol novolac resin mixture)	
Proper shipping name (ICAO)	Environmentally hazardous substance, liquid, n.o.s. (containing Epoxy phenol novolac resin mixture)	
14.3. Transport hazard class(es)		

ADR/RID class	9	
IMDG class	9	
ICAO class/division	9	
14.4. Packing group		
ADR/RID packing group	III	
IMDG packing group	III	
ICAO packing group		

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Labelling requirements will vary with hazardous net quantity. Please refer to the current transport regulations.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not carried in bulk. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulationsThis product may add to the calculation for determining whether a site is within scope of the
Control of Major Accident Hazards Regulations.
The provisions of the Health and Safety at Work Act and the Control of Substances
Hazardous to Health Regulations with amendments apply to the use of this product at work.
Relevant EU provisions transposed through retained EU law.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	The information contained within this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety legislation. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant National legislation are complied with. The information contained within this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
Key literature references and sources for data	Provision and Use of Personal Protective Equipment Regulations 1992 (SI 1992: 2932). PPG18: Control of Spillages and fire fighting run-off. HSG53 The selection, use and maintenance of respiratory protective equipment, as amended. HSG97 A step by step guide to COSHH assessment. Working with ADR: An introduction to the carriage of dangerous goods by road. UK ENVIRONMENTAL REGULATING AGENCIES: England and Wales- Environment Agency; Scotland- Scottish Environment Protection Agency (SEPA); Northern Ireland- Environment and Heritage Service.
Classification procedures according to SI 2019 No. 720	Where there is no test data available for the mixture, the classification has been determined based on the individual component hazard data in accordance with EC 1272/2008.
Training advice	For further information please contact your supplier, Belzona consultant or Belzona direct.
Revision comments	REVISION. This safety data sheet has been revised in the following Section(s): 1, 2, 8, 11, 12, 15, Please observe the REVISION DATE. Should you be reading a safety data sheet that is more than 24 months old or have concerns over its validity, please contact your local Belzona consultant or Belzona direct (sds@belzona.com) and the most current information will be sent to you.

Revision date	01/02/2023
Revision	5.7
SDS number	10805
SDS status	English. Approved.
Hazard statements in full	 H301 Toxic if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.