

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Product Identifier****PRODUCT NAME:** Structural Intermediate cure speed epoxy adhesive**PRODUCT CODE:** **AERO TECH****PRODUCT DESCRIPTION:** Two Part Epoxy Adhesive Part 2**1.2 Relevant identified uses of the substance or mixture and uses advise against Uses**

Adhesive/Sealant. For modelling uses.

Uses advised against

none

1.3 Details of the supplier of the safety data sheet**SUPPLIER:** Deluxe Materials Ltd.
Unit 13, Cufaude Business Park
Cufaude Lane, Bramley,
Hampshire RG26 5DL
United Kingdom**Email** info@deluxematerials.com**1.4 Emergency Telephone Number**

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Language: English

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Product identification** :mixture**Classification**

Classification according to Regulation EC No. 1272/2008 [CLP/GHS]



Skin Corr. 1B	H314
Acute Tox. 4	H302
Skin Sens. 1B	H317
Repr. 2	H361d
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification according to Directive 1999/45/EC [DPD]

C R34

Xn R21 R22

R43

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R62

R63 possible risk to the unborn child.

N R50/53

See section 16 for the full text of the R phrases or H statements declared above.

See section 11 for more detailed information on health effects and symptoms.

2.2 label elements

Hazard Pictogram

Signal Word **Danger****Hazard Statements**

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H317 May cause allergic skin reaction.

H361d Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.

P301+ P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P314+333+313 if you feel unwell or if skin irritation or rash occurs: Get medical attention.

P308+313 if exposed or concerned get medical advice.

P273 Avoid release to the environment.

P391 collect spillage.

Supplementary Precautionary Statements

P270 Do not eat drink or smoke when using this product.

P405 Store locked up.

P501 Dispose to licensed waste disposal site in accordance with local waste disposal Authority.

Supplemental Label Information (EU)

none

2.3 other hazards

There are no substances present that are classified as PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 mixtures

Component	CAS# EINECS# INDEX# REACH#	Classification according to Regulation EC No. 1272/2008 [CLP/GHS]	Amount %
Nonylphenol	25154-52-3 246-672-0 601-053-00-8 01-2119510715-45-xxx	Repr. 2 H361f Skin Corr, 1B H314, Aquatic Acute 1 H400, Aquatic Chronic 1 H410, Acute Tox 4 H302	<50
Polyaminoamide		Skin Sens. 1 H317	<46
2-piperazin-1-ylethylamine	140-31-8 205-411-0 612-105-00-4 01-2119471486-30-xxx	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Skin Sens. 1B H317, Aquatic Chronic 3 H412	<25
Triethylenetetramine	112-24-3 203-950-6 01-2119487919-13-xxxx	Acute Tox 4 H312, Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Chronic 3 H412	<5

There are no additional ingredients present which, within current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

There are no substances present that are classified as PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

SVHC nonylphenol 25154-52-3

Occupational Exposure limits, if available, are listed in section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

CONTACT WITH SKIN

Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items, which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

CONTACT WITH EYES

Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses

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after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Eye wash fountain should be located in immediate work area.

INGESTION

Do not induce vomiting. Give one cup of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

INHALATION

Move person to fresh air. If not breathing give artificial respiration: of by mouth to mouth use rescuer protection (pocket mask, etc.). If breathing is difficult oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

EMERGENCY PERSONNEL PROTECTION

First aid responders should pay attention to self-protection and use recommended protective clothing (chemical resistant gloves, splash protection) If potential for exposure exists refer to section 8 for specific personal protective equipment.

4.2 Most important symptoms and effects

no data at present

4.3 Indication of any immediate medical attention

Treat as above

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

5.2 Special hazards arising from the substance or mixture

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when product burns. During a fire smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides, Carbon monoxide, Carbon Dioxide and water.

5.3 Advice for fire-fighters

FIRE FIGHTING PROCEDURES

Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimise property damage.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Avoid contact with this material during fire fighting operations. If contact is likely change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire clean-up situations, refer to the relevant sections.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures personal precautions

Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Keep upwind of spill. Ventilate area of leak or spill. Refer to section 7, handling for additional precautionary measures. Use appropriate safety equipment. For additional information refer to section 8 exposure controls and personal protection.

6.2 Environmental precautions

Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil. See section 12 ecological information.

6.3 Methods and material for containment and cleaning up

Contain spilled material if possible. Absorb with materials such as: sand. Collect in suitable and properly labelled containers. See section 13 Disposal considerations for additional information. Ensure adequate ventilation.

6.4 Reference to other sections

see section 8. Clean the accident area carefully.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 PROTECTIVE MEASURES: Put on appropriate personal protective equipment (see section 8).

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used. Do not get eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.1.2 ADVICE ON GENERAL : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

7.1.3 OCCUPATIONAL HYGIENE : Workers should wash hands and face before eating, Drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original container. Provide floor trough with outlet.

7.3 Specific end uses

Adhesive/Sealant. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

EXPOSURE LIMITS

COMPONENT	LIST	TYPE	VALUE

Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)**Explanatory note:**

REACH requires manufacturers and importers to establish and report 'Derived No-Effect Levels' (DNEL's) for humans by inhalation, ingestion and dermal routes of exposure and 'Predicted No-Effect Concentrations' (PNEC's) for environmental exposure. DNEL's and PNEC's are established by the registrant without an official consultation process, and are not intended to be directly used for setting workplace or general population exposure limits. They are primarily used as input values in running Quantitative Risk Assessment models (like the ECETOC-TRA model). Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health-based OEL for that chemical substance. Further although DNEL's (and PNEC's) are an indication for setting risk reduction measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed governmental OEL's.

DNELs

Ingredient name	Exposure /Effects	DNELs	Population
2-piperazin-1-ylethylamine	Dermal	20mg/kg bw/d	Worker
	Inhalative	21.4 mg/m ³	Worker
Triethylenetetramine	short term inhalation systemic	5380mg/m ³	Industry
	long term dermal systemic	0.57 mg/kg/day	Industry
	long term inhalation systemic	1 mg/m ³	Industry
	long term dermal local effects	0.0028 mg/m ³	Industry
	short term dermal systemic	8 mg/kg/day	Consumer
	short term inhalation systemic	1600 mg/m ³	Consumer
	short term oral systemic	20 mg/kg/day	Consumer
	short term dermal local effects	0.1 mg/m ³	Consumer
	long term dermal systemic	0.25 mg/kg/day	Consumer

PNECs

Ingredient name	Compartment Detail	PNECs	Method Detail
nonylphenol	Freshwater	0.000614mg/l	
	Seawater	0.000527 mg/l	
2-piperazin-1-ylethylamine	Freshwater	0.058 mg/l	
	Seawater	0.0058mg/l	

8.2 Exposure controls

8.2.1 APPROPRIATE ENGINEERING CONTROLS: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual protection measures

8.2.2.1 HYGIENE MEASURES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2.2 EYE/FACE PROTECTION: Safety eye-wear complying to an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dust.

8.2.2.3 SKIN PROTECTION:

BODY PROTECTION: Overalls or labcoat.

8.2.2.4 HAND PROTECTION: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

MATERIAL OF GLOVES FOR LONG TERM APPLICATION (BTT>480MIN): Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber.

MATERIAL IF GLOVES FOR SHORT TERM/SPLASH APPLICATION (10MIN<BTT<480MIN): neoprene, nitrile rubber.

Use gloves approved to relevant standards e.g. EN374 (Europe), F739b (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

8.2.2.5 Breathing equipment

Combination filter A-P2

8.2.3 Environmental exposure controls**VENTILATION**

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	paste
Odour	Mild characteristic
Odour threshold	No test data available
pH	No test data available
Melting point/freezing point	No test data available
Initial boiling point and boiling range	>220C
Flash point	>100C
Evaporation rate	No test data available
Flammability	No test data available
Upper/lower flammability or explosive limits	Product is not explosive 1.0 vol% 10.5 vol%
Vapour pressure	No test data available
Vapour density	No test data available

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Relative density	1.35 calculated
Solubility	<0.1 @ 20°C
Partition coefficient n-octanol/water	No test data available
Auto-ignition temperature	315C
Decomposition temperature	No test data available
Viscosity	paste
Explosive properties	Not applicable
Oxidizing properties	Not applicable

9.2 Other information

None

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

no data

10.2 Stability

Stable under recommended storage conditions. See storage section 7

10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions.

10.4 Conditions to Avoid

No further information available

10.5 Incompatible Materials

Strong Acids, strong bases and oxidising agents.

10.6 Hazardous Decomposition Products

Combustion products may include and are not limited to: poisonous gases/vapours corrosive gases/vapours.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Endpoint	Species	Result	exposure
Nonylphenol	LD50	Rat	200-2000mg/kg	Oral
	LD50	Rabbit	2031mg/kg	Dermal
2-piperazin-1-ylethylamine	LD50	Rabbit	2097mg/kg	Oral
	LD50	Rat	>1470mg/kg	Oral
	LD50	Rabbit	866mg/kg	Dermal
Triethylenetetramine	LD50	Rat	1716mg/kg	Oral
	LD50	Rabbit	1465 mg/kg	dermal

Irritation/corrosion

Product/ingredient name	Test	Species	Route of exposure	Result
Triethylenetetramine				corrosive

Conclusion/summary

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Skin: caustic effect on skin and mucous membranes.

Eyes: strong caustic effect.

Sensitisation

Product/ingredient name	Test	Species	Route of exposure	Result
Triethylenetetramine	Guinea pig maximization test	Guinea pig	dermal	sensitising

Conclusion/summary : Sensitisation possible by skin contact.

Mutagenicity

Product/ingredient name	Test	Result
Triethylenetetramine	Genotoxicity in vitro DNA damage and or repair. Genotoxicity in vivo bacterial reverse mutation test	Negative positive

No data at present

Carcinogenicity

Product/ingredient name	Test	Result
Triethylenetetramine	OECD 451 exposure 3 days per week	No evidence of carcinogenicity

No data at present

Reproductive toxicity

Product/ingredient name	Test	Species	Result/result type	Target organs
Triethylenetetramine	NOAEL OECD 414 prenatal development toxicity study.	Rabbit	125 mg/kg/day	dermal

No data at present

Teratogenicity

Product/ingredient name	Test	Species	Result/result type
Triethylenetetramine	NOAEL OECD 414 prenatal development toxicity study.	Rat oral	750mg/kg/day

No data at present

Specific target organ toxicity (single exposure)

Non available

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Specific target organ toxicity (repeated exposure)

Product/ingredient name	Test	Species	Result/result type
Triethylenetetramine			

Aspiration hazard

Not available

Information on the likely routes of exposure

Not available

Potential acute health effects

Inhalation: toxic if inhaled.

Ingestion: harmful of swallowed

Skin contact: Estimated based on information from components <1000mg/kg
Caustic effect on skin and mucous membranes.
Sensitisation possible by skin contact.

Eye contact: strong caustic effect.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: no specific data

Ingestion: adverse symptoms may include strong caustic effect on mouth and throat and danger of perforation of the oesophagus and stomach.

Skin contact: adverse symptoms may include irritation and redness

Eye contact: adverse symptoms may include the following pain or irritation watering and redness.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : not available

Potential delayed effects: not available

Long term exposure

Potential immediate effects : not available

Potential delayed effects: not available

Have caused allergic skin sensitisation in guinea pigs. Individuals having an allergic skin reaction to this product may have an allergic skin reaction to reaction to similar materials.

Potential chronic health effects

Product/ingredient name	Test	result type	Result	Target organs

Conclusion/summary: Not available

General: Once sensitised a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

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Developmental effects: No Suspected of damaging the unborn child
 Fertility effects: suspected of damaging fertility.

11.2 Additional

none

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Product/ingredient name	Test	End point	exposure	Species	result
Nonylphenol	Algae toxicity	EC50	72 hours	Scenedesmus subspicatus	>0.1 mg/l
	Fish toxicity			Pimephales promelas	>0.1 mg/l
	Daphnia toxicity	EC50	96 hours	Daphnia magna	>0.01 mg/l
2-piperazin-1-ylethylamine	Algae toxicity	EC50	48 hours	Selenastrum capricornutum	494 mg/l
		EC50	72 hours	Pseudokirchnerilla subcapitata	>1000 mg/l
	Bacteria toxicity dynamic	EC50	2 hours	Nitrifizierende bakterien	511 mg/l
	Daphnia toxicity	EC50	48 hours	Daphnia magna	58 mg/l
		Fish toxicity	LC50	96 hours	Guppy
		LC50	96 hours	Poecilia reticulata	>1800 mg/l
Triethylenetetramine	Chronic toxicity aquatic invertebrates	LC50	96 hours	Fish	330 mg/l
		EC50	48 hours	Daphnia	31.1 mg/l
		IC 50	72 hours	Algae	20 mg/l
		EC10	21 days	Daphnia	1.9 mg/l
	Acute toxicity microorganisms	EC50	30mins	microorganisms	800mg/l

12.2 Persistence and degradability

Product/ingredient name	Test	Period	result
Triethylenetetramine	OECD 302A inherent biodegradability	84 days	20% degradation
	OECD 301D ready biodegradability closed bottle	162 days	0% degradation

Product/ingredient name	Aquatic half life	Photolysis	Biodegradability
			Not readily biodegradable
Triethylenetetramine		28 days	Not readily biodegradable

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12.3 Bio-Accumulative Potential

Product/ingredient name	LogPow	BCF	Potential
			No relevant information
Triethylenetetramine	2.65		Low potential

12.4 Mobility and soil

Soil/water partition coefficient(Koc): Triethylenetetramine 4000

Mobility: Not available

Remark: Very toxic for fish.

Additional ecological information

General notes

Water danger: extremely hazardous for water. Do not allow product to reach ground water, water bodies or sewage systems, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or un-neutralised.

Danger to drinking water if even extremely small quantities leak into the soil.

Also poisonous to fish and plankton in water bodies.

Very toxic to aquatic organisms.

12.5 Results of PBT and vPvB assessment

Not PBT or vPvB

12.6 Other adverse effects

No further information available

12.7 Other ecological information

none

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste product residues should not be disposed of via the sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste

yes

waste code **080409**

waste designation waste adhesives and sealants containing organic solvents or other dangerous substances.

Packaging

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Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN2735

14.2 UN proper shipping name

Amines, liquid corrosive N.O.S. (nonylphenol)

14.3 Transport hazard class(es) 8

14.4 Packing group II

14.5 Environmental hazards

Product contains environmentally hazardous substances:nonylphenol
Marine Pollutant

14.6 Special precautions for user

Warning: corrosive substances

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

IBC code not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety , health and environmental regulations

Directive 2006/121/EC of the European Parliament and of the council of 18 December 2006. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 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.

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16.2 Associated risk phrases.

Full text of classifications DPD

C – corrosive

Xn- Harmful

Full text of abbreviated R-phrases

R34 Causes burns

R21/22 Harmful by in contact with skin and if swallowed.

R43 May cause sensitisation by skin contact.

R62 Possible risk of impaired fertility

R50/53 very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

S26 In case of contact with eyes rinse immediately with plenty of soap and water.

S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S57 Use appropriate container to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste.

Full text of abbreviated H statements

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 may cause allergic skin reaction.

H318 Causes serious eye damage.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects