SAFETY DATA SHEET
CPH 005

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	CPH 005
Product number	50-005 B
REACH registration notes	Polymer. All starting substances and monomers are REACH compliant.

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

Identified uses	Refer to Technical Data Sheet
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

Campbell Coutts Ltd
7 Tower Industrial Estate
Tower Lane
Eastleigh
Hampshire
SO50 6NZ
United Kingdom
+44(0)23 80613700
sales@flocking.biz

1.4. Emergency telephone number

Emergency telephone +44 (0)1257 425512 (09.00-17.00 hours GMT) +44 (0) 7966137782 (out of hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram

Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Contains Triethylenetetramine, Tert-Butylphenol

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Triethylenetetramine **10-30%**

CAS number: 90640-67-8 EC number: 203-950-6 REACH registration number: 01-2119487919-13-XXXX

Classification
Skin Corr. 1B - H314
Skin Sens. 1 - H317
Eye Dam. 1 - H318
Acute Tox. 4 - H312
Aquatic Chronic 3 - H412

Tert-Butylphenol **5-10%**

CAS number: 98-54-4 EC number: 202-679-0 REACH registration number: 01-2119489419-21-XXXX

Classification
Eye Dam. 1 - H318
Repr. 2 - H361f
Skin Irrit. 2 - H315
Aquatic Chronic 2 - H411

benzyl alcohol **1-5%**

CAS number: 100-51-6 EC number: 202-859-9 REACH registration number: 01-2119492630-38-XXXX

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H332

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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information If in doubt, get medical attention promptly. Keep affected person under observation. Never give anything by mouth to an unconscious person. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Rinse immediately with plenty of water. Consult a physician for specific advice. First aid personnel should wear appropriate protective equipment during any rescue. Get medical attention if any discomfort continues. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Move affected person to fresh air at once. Remove affected person from source of contamination. Show this Safety Data Sheet to the medical personnel. Treat symptomatically. While rinsing, remove clothing not adhering to the affected area. Keep affected person away from heat, sparks and flames. Chemical burns must be treated by a physician.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If in doubt, get medical attention promptly.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing and rinse skin thoroughly with water. Wash contaminated clothing before reuse. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information Seek medical attention in case of contact with Skin, Eyes or if inhaled. If adverse symptoms develop seek medical attention

Inhalation Harmful by inhalation. Vapours may cause headache, fatigue, dizziness and nausea. Upper respiratory irritation. Severe irritation of nose and throat.

Ingestion Harmful if swallowed. May cause chemical burns in mouth and throat. Burning sensation in mouth. May cause stomach pain or vomiting.

Skin contact Prolonged or repeated exposure may cause severe irritation. Chemical burns. Burning pain and severe corrosive skin damage. Blistering may occur. Mild dermatitis, allergic skin rash.

Eye contact May cause severe eye irritation. Pain. Irritation and redness, followed by blurred vision. Risk of serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific treatment is known.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Carbon dioxide (CO2). Foam. Water spray, fog or mist.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None under normal conditions.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

5.3. Advice for firefighters

Protective actions during firefighting Do not use water jet as an extinguisher, as this will spread the fire. Avoid breathing fire gases or vapours. Fight fire from safe distance or protected location. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Do not enter storage areas or confined spaces unless adequately ventilated. Contain and collect extinguishing water. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. Fight fire from safe distance or protected location. Move containers from fire area if it can be done without risk. No action shall be taken without appropriate training or involving any personal risk. Use water spray to reduce vapours.

Special protective equipment for firefighters Use air-supplied respirator, gloves and protective goggles. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours. Avoid contact with contaminated tools and objects. Avoid contact with eyes and prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes. Avoid inhalation of vapours and contact with skin and eyes. Contact with hot product can cause serious thermal burns. Do not enter storage areas or confined spaces unless adequately ventilated. Do not handle broken packages without protective equipment. Ensure procedures and training for emergency decontamination and disposal are in place. Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Keep unnecessary and unprotected personnel away from the spillage. No action shall be taken without appropriate training or involving any personal risk. Take care as floors and other surfaces may become slippery. Treat the spilled material according to the instructions in the clean-up section. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Usage precautions Avoid generation and spreading of dust. Provide adequate ventilation. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Avoid inhalation of vapours and contact with skin and eyes. Contact with hot product can cause serious thermal burns. Contaminated rags and cloths must be put in fireproof containers for disposal. Ensure procedures and training for emergency decontamination and disposal are in place.

Advice on general occupational hygiene Contaminated work clothing should not be allowed out of the workplace. Change work clothing daily before leaving workplace. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Remove contaminated clothing and protective equipment before entering eating areas. Take off contaminated clothing and wash it before reuse. Promptly remove any clothing that becomes contaminated. Care should be taken to avoid contact with contaminants when removing contaminated clothing. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Do not smoke in work area. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Use appropriate skin cream to prevent drying of skin. Wash hands thoroughly after handling. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 5°C and 15°C. Keep container in a well-ventilated place. Keep away from food and drink. Do not store near heat sources or expose to high temperatures. Do not enter storage areas or confined spaces unless adequately ventilated. Keep container tightly closed. Keep containers upright. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from oxidising materials, heat and flames. Protect from freezing and direct sunlight. Store away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Specific uses are identified in section 1.2, for further information refer to the technical data sheet.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Triethylenetetramine (CAS: 90640-67-8)

DNEL
Workers - Dermal; Long term systemic effects: 0.57 mg/kg/day
Workers - Inhalation; Long term systemic effects: 1 mg/m³
Consumer - Dermal; Short term systemic effects: 8 mg/kg/day
Workers - Inhalation; Short term systemic effects: 5380 mg/m³
Workers - Dermal; Long term local effects: 0.028 mg/m³

PNEC
- Fresh water; 190 ug/l
- Sediment (Freshwater); 95.9 mg/kg
- Intermittent release; 200 ug/l
- Sediment (Marinewater); 19.2 mg/kg
- STP; 4.25 mg/l

Tert-Butylphenol (CAS: 98-54-4)

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DNEL

Workers - Dermal; Short term systemic effects:
Workers - Inhalation; Short term systemic effects:
Workers - Dermal; Short term local effects:
Workers - Inhalation; Short term local effects:
Workers - Dermal; Long term systemic effects: 0.071 mg/kg
Workers - Inhalation; Long term systemic effects: 0.5 mg/m³
Consumer - Inhalation; Short term local effects:
Consumer - Dermal; Long term systemic effects: 0.026 mg/kg
Consumer - Inhalation; Long term systemic effects: 0.09 mg/m³
Consumer - Oral; Long term systemic effects: 0.026 mg/kg
Consumer - Dermal; Long term local effects:
Consumer - Inhalation; Long term local effects:

PNEC

- Fresh water; 0.01 mg/l
- Marine water; 0.001 mg/l
- Intermittent release; 0.048 mg/l
- Sediment (Freshwater); 0.975 mg/kg
- STP; 1.5 mg/l
- Sediment (Marinewater); 0.0975 mg/kg
- Soil; 0.324 mg/kg

benzyl alcohol (CAS: 100-51-6)

DNEL

Workers - Dermal; : 9.5 mg/kg
Workers - Inhalation; : 90 mg/m³
Consumer - Oral; Short term systemic effects: 25 mg/kg/day
Consumer - Oral; Long term systemic effects: 5 mg/kg/day
Workers - Inhalation; Short term systemic effects: 450 mg/m³
Consumer - Inhalation; Short term systemic effects: 95.5 mg/m³
Workers - Dermal; Short term systemic effects: 47 mg/kg/day
Consumer - Dermal; Short term systemic effects: 28.5 mg/kg/day
Consumer - Dermal; Long term systemic effects: 5.7 mg/kg/day

PNEC

- Soil; 0.456 mg/kg
- STP; 39 mg/l
- Sediment; 5.27 mg/kg
- Sediment (Marinewater); 0.527 mg/kg
- Intermittent release; 2.3 mg/l
- Fresh water; 1 mg/l
- Marine water; 0.1 mg/l

8.2. Exposure controls

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Odour Characteristic.

Viscosity 150 P @ 25°C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

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10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid freezing. Avoid exposure to high temperatures or direct sunlight. Containers can burst violently or explode when heated, due to excessive pressure build-up.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Heating may generate the following products: Carbon dioxide (CO2). Carbon monoxide (CO). Harmful vapours may be liberated during curing.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 7,404.39

Acute toxicity - dermal

ATE dermal (mg/kg) 7,327.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 139.27

Toxicological information on ingredients.

Triethylenetetramine

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 1,716.2

Species Rat

ATE oral (mg/kg) 1,716.2

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 1,465.4

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Skin corrosion/irritation

Animal data Corrosive.

Serious eye damage/irritation

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Serious eye damage/irritation	Corrosive
Skin sensitisation	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Positive. DNA damage and/or repair: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative.
Carcinogenicity	
Carcinogenicity	Test results on Mouse were negative
Reproductive toxicity	
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 0 - 750 mg/kg, , Rat - NOAEL: 0-125 mg/kg, , Rabbit
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	NOAEL 50 mg/kg/day, Oral,
Target organs	Respiratory system, lungs

Tert-Butylphenol

Acute toxicity - oral	
Notes (oral LD_{50})	(Rat) LD50 >2000 mg/kg
Acute toxicity - dermal	
Notes (dermal LD_{50})	(Rabbit) LD50 >2000 mg/kg
Skin corrosion/irritation	
Animal data	Irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Irritation of eyes is assumed. Corrosivity to eyes is assumed.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
Genotoxicity - in vivo	Does not contain any substances known to be mutagenic.
Carcinogenicity	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 70 mg/kg, Oral, Rat Two-generation study - NOAEL 70 mg/kg, Oral, Rat F1 Two-generation study - NOAEL 70 mg/kg, Oral, Rat F2a
Specific target organ toxicity - single exposure	

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STOT - single exposure	Category 3

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Not relevant.

benzyl alcohol

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,620.0
Species	Rat
Notes (oral LD_{50})	(Rat) LD50 >2000 mg/kg
ATE oral (mg/kg)	500.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	4.178
Species	Rat
Notes (inhalation LC_{50})	LC0 (4h) >4.178 mg/l
ATE inhalation (dusts/mists mg/l)	4.178

Germ cell mutagenicity

Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
Genotoxicity - in vivo	Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity	Does not contain any substances known to be carcinogenic.

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

Triethylenetetramine

Acute toxicity - fish	LC_{50}, 96 hours: 330 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 31.1 mg/l, Daphnia magna EC10, 21 days: 1.9 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, 72 hours: 20 mg/l, Algae NOEC, 72 hours: <2.5 mg/l, Algae
Acute toxicity - microorganisms	EC_{50}, 30 minutes: 800 mg/l, Bacteria EC10, 30 minutes: 42.5 mg/l, Bacteria

Tert-Butylphenol

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Acute toxicity - fish	LC_{50}, 96 hours: >1-10 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1-10 mg/l, Daphnia magna NOEC, 21 days: >0.1-1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >1-100 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 3 hours: >10-100 mg/l, Activated sludge
Chronic aquatic toxicity	
NOEC	0.01 < NOEC ≤ 0.1

benzyl alcohol

Acute toxicity - fish	LC_{50}, 96 hours: 460 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 230 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 770 mg/l, Algae
Acute toxicity - microorganisms	IC_{50}, 24 hours: 390 mg/l, Bacteria

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.

Triethylenetetramine

Phototransformation	- Photolysis : < 28 days
Biodegradation	- Modified SCAS Test 20%: 84 days - Closed Bottle Test 0%: 162 days

Tert-Butylphenol

Persistence and degradability	The product is not readily biodegradable.

benzyl alcohol

Persistence and degradability	The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

Triethylenetetramine

Bioaccumulative potential	Low bio-accumulation can be estimated because of low log Pow.
Partition coefficient	log Pow: -2.65

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Tert-Butylphenol

Bioaccumulative potential BCF: 0.004, Cyprinus carpio (Common carp) mg/l

benzyl alcohol

Bioaccumulative potential Not relevant.

12.4. Mobility in soil

Ecological information on ingredients.

benzyl alcohol

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

Tert-Butylphenol

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

benzyl alcohol

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information All packaging used is compliant with the requirements of EU Directive 94/62/EC for packaging and packaging components. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Confirm disposal procedures with environmental engineer and local regulations. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Dispose of waste product or used containers in accordance with local regulations When handling waste, the safety precautions applying to handling of the product should be considered.

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Disposal methods	Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Confirm disposal procedures with environmental engineer and local regulations. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Dispose of contents/container in accordance with local regulations. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not empty into drains. External recovery, treatment, recycling and disposal of waste should comply with all applicable local and/or national regulations. Only store in correctly labelled containers. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. When handling waste, the safety precautions applying to handling of the product should be considered.
Waste class	08-04-09 waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735
UN No. (ADN)	2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, Tert-Butylphenol)
Proper shipping name (IMDG)	Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, Tert-Butylphenol)
Proper shipping name (ICAO)	Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, Tert-Butylphenol)
Proper shipping name (ADN)	Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, Tert-Butylphenol)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C7
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels

14.4. Packing group

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ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

SECTION 15: Regulatory information

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

National regulations	EH40/2005 Workplace exposure limits. Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments. Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	CHIP for everyone HSG228. Introduction to Local Exhaust Ventilation HS(G)37. Workplace Exposure Limits EH40.
Health and environmental listings	None of the ingredients are listed.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.
Water hazard classification	WGK 2

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Regulatory Approvals	Heavy metals Cadmium [Cd], Mercury [Hg], Lead [Pb] and Chrome [Cr[VI]] are not intentionally used in the manufacture of this product.,Further regulatory approvals and compliance with regulatory standards are available upon request.
Tariff Code	3908900090
Listings	European Union EINECS European Inventory of Existing Commercial Substances [EINECS]. All components of this product are listed on the European Inventory of Existing Chemicals Substances and/or are polymers [monomers included on EINECS] and/or meet the criteria of No Longer Polymer.,Canada DSL: Canada. Domestic Substances List [DSL], as amended through October 21, 2015. All components of this product are listed on the Domestic Substances List.,USA TSCA: Toxic Substances Control Act [TSCA] Chemical Substances Inventory [July 2015]. All components of this product are listed on the TSCA Inventory are in compliance with the requirements of TSCA.,Australia AICS: Australia. Inventory of Chemical Substances [AICS] [as amended through 6th October, 2015]. All components of this product are listed on the Australian Inventory of Chemical Substances.,Japan ENCS: Industrial Safety & Health Law [ISHL] Inventory, as amended through September 25, 2015. All components of this product are listed on the Japanese Existing and New Chemicals Inventory.,Korea KECI: Korea. Existing Chemicals Inventory [KECI], October 2nd, 2015. All components of this product are listed on the Korean Existing Chemicals Inventory or are not required to be listed on KECI.,China IECSC: China. Inventory of Existing Chemical Substances [IECSC], 2013. All components of this product are listed on the Inventory of Existing Chemical Substances in China or are not required to be listed in IECSC.,Philippines PICCS: Philippines. Inventory of Chemicals and Chemical Substances [PICCS], 2012. All components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances.,Japan ENCS: Industrial Safety & Health Law [ISHL] Inventory, as amended through September 25, 2015. All components of this product are listed on the Japanese Existing and New Chemicals Inventory.,Philippines PICCS: Philippines. Inventory of Chemicals and Chemical Substances [PICCS], 2012. All components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances.,New Zealand ERMA: New Zealand. New Zealand Inventory of Chemicals [NZIoC], as published by ERMA New Zealand (as amended through August, 2015. All components of this product are listed on the Environmental Risk Management Authority of New Zealand.,This list may not be exhaustive, contact the Company if you require details of inventory status not listed above.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	PBT Persistant Bioaccumulative Toxic vPvB Very persistant Very Bioaccumulative WEL Workplace exposure limits
General information	Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	23/11/2015
Revision	9
Supersedes date	07/07/2015

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SDS number 5275

Risk phrases in full

R20/22 Harmful by inhalation and if swallowed.
R21 Harmful in contact with skin.
R34 Causes burns.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.

Hazard statements in full

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.