



SAFETY DATA SHEET PERBAC AGRI

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

1.1. Product identifier

Product name PERBAC AGRI

Product number HLP25

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

Identified uses Disinfectant. For professional use only.

Uses advised against Not for use by hand. Not for direct contact with Food or Beverage stuffs. Not for Direct Oral Consumption. Must not be used where Hypochlorite based chemicals (Bleach) are present.

1.3. Details of the supplier of the safety data sheet

Supplier UK - Holchem Laboratories Ltd. Gateway House, Pilsworth Road, Bury, BL9 8RD

Tel : +44 (0) 1706 222288; e-mail info@holchem.co.uk

EU - Kersia Deutschland GmbH, Marie-Curie-Straße 23
53332 Bornheim - Sechtem

1.4. Emergency telephone number

Emergency telephone Emergency Information:-
For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 1865 407333.
Note:- This number will not accept order queries or calls dealing with equipment breakdowns.
This product is registered with the NPIS. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599 (This is a Lo Call Number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Ox. Liq. 2 - H272 Met. Corr. 1 - H290

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word

Danger

PERBAC AGRI

Hazard statements	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapour/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations.
Contains	HYDROGEN PEROXIDE SOLUTION ... %, ACETIC ACID, PERACETIC ACID, ALCOHOLS C6-12 ETHOXYLATED
Detergent labelling	15 - < 30% oxygen-based bleaching agents, < 5% non-ionic surfactants
Supplementary precautionary statements	P220 Keep away from clothing and other combustible materials. P234 Keep only in original packaging. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Note H290 classification relates to the Neat Undiluted Product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROGEN PEROXIDE SOLUTION ... %	10-30%
CAS number: 7722-84-1	EC number: 231-765-0
	REACH registration number: 01-2119485845-22
Classification	
Ox. Liq. 1 - H271	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

PERBAC AGRI

ACETIC ACID		10-30%
CAS number: 64-19-7	EC number: 200-580-7	REACH registration number: 01-2119475328-30-XXXX
Classification		
Flam. Liq. 3 - H226 Skin Corr. 1A - H314 Eye Dam. 1 - H318		
PERACETIC ACID		5-10%
CAS number: 79-21-0	EC number: 201-186-8	REACH registration number: 01-2119531330-56-0000
M factor (Acute) = 1	M factor (Chronic) = 10	
Classification		
Flam. Liq. 3 - H226 Org. Perox. C - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
ALCOHOLS C6-12 ETHOXYLATED		1-5%
CAS number: 68439-45-2		
Classification		
Acute Tox. 4 - H302 Eye Dam. 1 - H318		

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

Composition comments The Biocidally Active components of this product are supported in the Biocidal Products Regulation. To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH. Note:- H290 "May be Corrosive to Metals" refers to the neat product.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury. For immediate First Aid advice in the UK, dial 111.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention.

PERBAC AGRI

Skin contact	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. In case of difficulty of opening eye lids, administer an analgesic eye wash (oxybuprocaine).
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	The information given here relates to the neat chemical, dilutions may also cause chemical burns to skin and permanent eye damage.
Inhalation	Severe respiratory irritant. Breathing difficulties will be experienced, together with coughing, pulmonary oedema. On repeated exposure nose bleeds and chronic bronchitis may be experienced. If mixed with Hypochlorite based products (Bleach) Chlorine Gas may be evolved, this can result in irritation to eyes and difficulty in breathing. If inhaled this may result in irritation to the mouth, nose and respiratory tract.
Ingestion	Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. There is potential for perforation of the oesophagus and stomach. Similar but less severe symptoms will be seen if dilute chemical is ingested.
Skin contact	This product is strongly corrosive.
Eye contact	This product is strongly corrosive. May result in permanent eye damage.

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

Notes for the doctor	Strongly Oxidising Acid in Aqueous Solution. Rinse well with water to neutral pH. Risk of Respiratory disorder.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire. Water. Water spray, fog or mist.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Strong Oxidiser, may cause fire or explosion. Oxygen released in thermal decomposition may support combustion. In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed, which may form an explosive mixture with air. Contact with Sodium Hypochlorite liberates toxic Chlorine Gas.
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5.3. Advice for firefighters

Protective actions during firefighting	Use air respirator if substance is involved in a fire. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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PERBAC AGRI

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections See sections 8, 12 & 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Read and follow manufacturer's recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep above the chemical's freezing point. Keep away from chlorinated and alkaline products.

7.3. Specific end use(s)

Specific end use(s) Disinfectant, refer to Product Information Sheet for full details. Use in well ventilated areas.

Usage description This product is suitable for use in food and beverage processing plants, but it is not designed for direct food contact.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

HYDROGEN PEROXIDE SOLUTION ... %

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³

ACETIC ACID

Long-term exposure limit (8-hour TWA): WEL 10 ppm 25 mg/m³

Short-term exposure limit (15-minute): 20 ppm 50 mg/m³

WEL = Workplace Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limits

HYDROGEN PEROXIDE SOLUTION ... % (CAS: 7722-84-1)

DNEL	Professional - Inhalation; Short term local effects: 3 mg/m ³ Professional - Inhalation; Long term local effects: 1.4 mg/m ³ Consumer - Inhalation; Short term local effects: 1.93 mg/m ³ Consumer - Inhalation; Long term local effects: 0.21 mg/m ³
PNEC	- Fresh water; 0.0126 mg/l - marine water; 0.0126 mg/l - Intermittent release; 0.0138 mg/l - STP; 4.66 mg/l - Sediment (Freshwater); 0.047 mg/kg - Sediment (Marinewater); 0.047 mg/kg - Soil; 0.0023 mg/kg

PERBAC AGRI

ACETIC ACID (CAS: 64-19-7)

DNEL General population - Inhalation; Long term systemic effects: 25 mg/m³
 General population - Inhalation; Acute local effects: 25 mg/m³
 General population - Oral; Long term systemic effects: 7.20 ug/KG bw/day

PERACETIC ACID (CAS: 79-21-0)

DNEL Professional - Inhalation; Short term systemic effects: 0.6 mg/m³
 Professional - Inhalation; Long term systemic effects: 0.6 mg/m³
 Professional - Inhalation; Short term local effects: 0.6 mg/m³
 Professional - Inhalation; Long term local effects: 0.6 mg/m³
 Professional - Dermal; Short term local effects: 0.12 %
 Consumer - Inhalation; Short term systemic effects: 0.6 mg/m³
 Consumer - Inhalation; Long term systemic effects: 0.6 mg/m³
 Consumer - Inhalation; Long term local effects: 0.6 mg/m³
 Consumer - Inhalation; Short term local effects: 0.3 mg/m³
 Consumer - Dermal; Short term local effects: 0.12 %

PNEC - Fresh water; 0.000224 mg/l
 - STP; 0.051 mg/l
 - Sediment (Freshwater); 0.00018 mg/kg
 - Soil; 0.320 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

If use of this product generates dust, mists, vapours or fumes, process enclosures or local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits quoted in this msds or other data sources.

Personal protection

The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.

Eye/face protection

The following protection should be worn: Full face visor or shield. Refer to EN Standard 166 to select appropriate level of protection.

Hand protection

It is recommended that gloves are made of the following material: Butyl rubber. Refer to Standard EN 374 and EN 16523 The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

Hygiene measures

Provide eyewash station and safety shower. Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Contaminated clothing and shoes must be discarded.

PERBAC AGRI

Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Recommended filter type ABEK-P2. Consult EN133 AND EN141.
Environmental exposure controls	Do not allow the substance to contaminate surface water/ground water. See points 6, 12 &13. Discharge of solutions into effluent systems (including municipal drains) or to surface water are expected to cause significant pH changes. Discharge of solutions should be carried out such that pH changes are minimised. Where necessary pH buffering measures should be adopted. Users of this product should consult local drainage and permitting authorities to ensure that any restrictions or discharge consents are adhered to.
General Health and Safety Measures.	The above requirements refer to the neat chemical. In-use solutions may have a lower classification, however, a full risk assessment should be carried out before handling any chemical(s). Risk assessments should refer to COSHH and any other relevant legislation or industry specific guidelines governing the use of chemicals. Note a 1% solution would have no health risk classification, but would still have the environmental classification H412 Harmful to aquatic life with long lasting effects.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid. Liquid
Colour	Colourless.
Odour	Strong. Acetic acid.
Odour threshold	Not applicable.
pH	pH (concentrated solution): <1
Melting point	<-30°C
Initial boiling point and range	105 Degrees C
Flash point	74 - 83°C
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	32hPa (calculated) @ 25°C
Vapour density	Not applicable.
Relative density	1.1 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Miscible with water
Partition coefficient	Not applicable. Technically not feasible.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	>=60°C Self-Accelerating decomposition temperature (SADT)
Viscosity	Not determined.
Explosive properties	Not applicable.

PERBAC AGRI

Explosive under the influence of a flame Not considered to be explosive.

Oxidising properties Classified as Oxidising.

9.2. Other information

Refractive index Not applicable.

Particle size Not applicable.

Molecular weight Not applicable.

Volatility Not applicable.

Saturation concentration Not applicable.

Critical temperature Not applicable.

Volatile organic compound Not applicable.

Explosive Properties Not Classified as Explosive

Storage Temperature Range 0 to <30 Degrees C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions. Stable under normal temperature conditions and recommended use. Avoid contact with caustic/alkaline material; this will generate heat and potentially corrosive vapour. Avoid contact with bleach and other hypochlorite based products; this will produce toxic Chlorine gas.

10.2. Chemical stability

Stability Stable at normal ambient temperatures. Decomposes on heating.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Refer to section 10.1. Do not mix with Hypochlorite based chemicals, this will result in the generation of toxic chlorine gas. Contact with combustible material may cause fire or explosions.
Contact with flammable material may cause fire or explosions.
Risk of explosion if heated under confinement.
Fire or intense heat may cause violent rupture or packages.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid pressure build up, contamination by dust or combustible materials.

10.5. Incompatible materials

Materials to avoid Reacts violently with readily oxidisable organic materials, acids, alkalis, reducing agents and other oxidisers. Catalytically decomposed by heavy metals and their salts, enzymes and contaminants such as dirt or rust. Flammable/combustible materials.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 300.0

Species Rat

Notes (oral LD₅₀) Data is for a 5% PAA solution.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,147.0

Species Rat

Notes (dermal LD₅₀) Data is for a 5% PAA solution.

ATE dermal (mg/kg) 1,147.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 4,080.0

Species Rat

Notes (inhalation LC₅₀) Units of mg/m³ for 5% PAA mixture as an aerosol.

ATE inhalation (dusts/mists mg/l) 1.5

Carcinogenicity

Carcinogenicity The components of this formulation will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.

General information See section 4.2.

Inhalation May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion Causes burns. May cause internal injury.

Skin contact This product is strongly corrosive.

Eye contact May cause permanent eye injury.

SECTION 12: Ecological information

Ecotoxicity This product is classified as very toxic to aquatic life, this refers to the neat product. Normal use is not expected to pose a risk.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish See note 12.0.

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate.

Partition coefficient Not applicable. Technically not feasible.

PERBAC AGRI

12.4. Mobility in soil

Mobility The product contains substances which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

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 determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals. 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.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3149
UN No. (IMDG)	3149
UN No. (ICAO)	3149

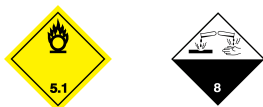
14.2. UN proper shipping name

Proper shipping name (ADR/RID)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Proper shipping name (IMDG)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Proper shipping name (ICAO)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
Proper shipping name (ADN)	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3. Transport hazard class(es)

ADR/RID class	5.1
ADR/RID label	5.1 & 8
IMDG class	5.1
ICAO class/division	5.1
ICAO subsidiary risk	8

Transport labels



14.4. Packing group

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

PERBAC AGRI

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS 5.1-02

Hazard Identification Number 58
(ADR/RID)

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

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

SECTION 15: Regulatory information

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

National regulations	UK Adoption and Implementation of the UN Globally Harmonised System (GHS) on Classification and Labelling of Chemicals (GB CLP) and considers UK National REACH legislation. Also UK Biocides Regulations.
EU legislation	European Regulation (EC) No 1272/2008 (as amended) on Classification, Labelling and Packaging of Substances and Mixtures. Also considered is the REACH Regulation (EC) No.1907/2006 (as amended). REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products. [BPR]
Explosive Precursors	Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors: Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

15.2. Chemical safety assessment

Pcs Information A suspension containing 5% w/w Peracetic Acid in a Corrosive/Harmful/Oxidising formulation.
Authorising Holder Holchem Laboratories Ltd.

Pcs Number PCS No:- 98979

No chemical safety assessment has been carried out.

SECTION 16: Other information

PERBAC AGRI

Abbreviations and acronyms used in the safety data sheet	(EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures. NPIS - National Poisons Information Service. PBT - Persistent, Bioaccumulative & Toxic. vPvB - Very Persistent, Very bioaccumulative. REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006). DNEL - Derived No Effect Limit. PNEC - Predicted No Effect Concentration. COSHH - Control of Substances Hazardous to Health. Industry - Refers in section 8 to application of the substance in an industrial process. Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.
Revision comments	Amendment to the emergency phone number in Section 1.4.
Revision date	16/10/2021
SDS number	26578
Hazard statements in full	H226 Flammable liquid and vapour. H242 Heating may cause a fire. H271 May cause fire or explosion; strong oxidiser. H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302 Harmful if swallowed. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
REACH extended MSDS comments	REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.
END OF SAFETY DATA SHEET	

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. All composition information is based on suppliers data.