

**ARPAX A2 AIR FRESHENER CONCENTRATE**
**Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** **ARPAX A2 AIR FRESHENER CONCENTRATE**  
 Substance type: CLP Mixture

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

Use of the Substance/Mixture : CLEANER

Recommended restrictions on use : Reserved for industrial and professional use.

**1.3 Details of the supplier of the safety data sheet:**

**COMPANY IDENTIFICATION**  
 Ecolab Ltd.  
 PO Box 11; Winnington Avenue  
 Northwich, Cheshire, CW8 4DX, United Kingdom  
 TEL: + 44 (0)1606 74488

**LOCAL COMPANY IDENTIFICATION**  
 Ecolab Ltd.  
 PO Box 11; Winnington Avenue  
 Northwich, Cheshire, CW8 4DX, United Kingdom  
 TEL: + 44 (0)1606 74488

For Product Safety information please contact: [msdseame@nalco.com](mailto:msdseame@nalco.com)

**1.4 Emergency telephone number:**

Emergency telephone number : Trans-European  
 +441618841235  
 +32-(0)3-575-5555 Trans-European Address European  
 Economic Area HQ

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**Section: 2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3	H226
Acute toxicity, Category 4	H302
Serious eye damage, Category 1	H318
Chronic aquatic toxicity, Category 3	H412

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H318 Causes serious eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

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Precautionary Statements	<b>Prevention:</b>	
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ eye protection/ face protection.
	<b>Response:</b>	
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Alcohols, C13, branched, ethoxylated

Special labelling of certain mixtures : Contains: Limonene 2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)- Citral 3-(4-TERT-BUTYLPHENYL)PROPIONALDEHYDE May produce an allergic reaction.

**2.3 Other hazards**

None known.

**Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
Alcohols, C13, branched, ethoxylated	69011-36-5	Acute toxicity Category 4; H302 Serious eye damage Category 1; H318	25 - < 30
ALCOHOLS, C6-12, ETHOXYLATED	68439-45-2	Skin irritation Category 2; H315 Serious eye damage Category 1; H318	2.5 - < 3
2,6-DIMETHYLOCT-7-EN-2-OL	18479-58-8	Eye irritation Category 2; H319	1 - < 2.5
Limonene	5989-27-5 227-813-5	Nota C Flammable liquids Category 3; H226 Skin irritation Category 2; H315 Skin sensitization Category 1; H317 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	0.25 - < 0.5
2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-	105-87-3 203-341-5 01-2119973480-35	Skin irritation Category 2; H315 Skin sensitization Category 1; H317 Chronic aquatic toxicity Category 3; H412	0.25 - < 0.5
Citral	5392-40-5 226-394-6 01-2119462829-23	Skin irritation Category 2; H315 Skin sensitization Category 1; H317	0.25 - < 0.5
3-(4-TERT-BUTYLPHENYL)PROPIONALDEHYDE	18127-01-0 242-016-2 01-2119983533-30	Acute toxicity Category 3; Acute toxicity Category 3; Acute toxicity Category 3; Chronic aquatic toxicity Category 2;	0.1 - < 0.25

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		Skin sensitization Category 1;	
Substances with a workplace exposure limit :			
Ethanol	64-17-5 200-578-6	Flammable liquids Category 2; H225	5 - < 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section: 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- If inhaled : Remove to fresh air.  
Treat symptomatically.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and plenty of water.  
Get medical attention if symptoms occur.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical attention immediately.
- If swallowed : Rinse mouth.  
Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.

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

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

**4.3 Indication of immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.

**Section: 5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable extinguishing media : Foam  
Carbon dioxide  
Dry powder  
Other extinguishing agent suitable for Class B fires  
For large fires, use water spray or fog, thoroughly drenching the burning material.

**5.2 Special hazards arising from the substance or mixture**

- Specific hazards during firefighting : Fire Hazard  
Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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Hazardous combustion products : Depending on combustion properties, decomposition products may include following materials:  
Carbon oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Use personal protective equipment.

Further information : Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

**Section: 6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel : Ensure adequate ventilation.  
Remove all sources of ignition.  
Keep people away from and upwind of spill/leak.  
Avoid inhalation, ingestion and contact with skin and eyes.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Ensure clean-up is conducted by trained personnel only.  
Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**6.2 Environmental precautions**

Environmental precautions : Do not allow contact with soil, surface or ground water.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Eliminate all ignition sources if safe to do so.  
Stop leak if safe to do so.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Flush away traces with water.  
For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.  
For personal protection see section 8.  
See Section 13 for additional waste treatment information.

**Section: 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Advice on safe handling : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest.

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Keep away from fire, sparks and heated surfaces. Do not breathe spray, vapour. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

Suitable material : Keep in properly labelled containers.

**7.3 Specific end uses**

Specific use(s) : CLEANER

**Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m <sup>3</sup>	UKCOSSTD
Further information	2	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used		

**DNEL**

Limonene	:	End Use: Workers Exposure routes: Dermal Potential health effects: short-term - local Value: 0.222 mg/cm <sup>2</sup>
	:	End Use: Workers Exposure routes: Inhalation Potential health effects: long term - systemic Value: 33.3 mg/m <sup>3</sup>
Ethanol	:	End Use: Workers Exposure routes: Inhalation Potential health effects: short-term - local Value: 1900 mg/m <sup>3</sup>
	:	End Use: Workers Exposure routes: Dermal Potential health effects: long term - systemic
	:	End Use: Workers Exposure routes: Inhalation Potential health effects: long term - systemic

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	Value: 950 mg/m <sup>3</sup>
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## PNEC

Limmonene	:	Fresh water Value: 0.0054 mg/l
		Marine water Value: 0.00054 mg/l
		STP Value: 1.8 mg/l
		Fresh water sediment Value: 1.32 mg/kg
		Marine sediment Value: 0.13 mg/kg
		Soil Value: 0.262 mg/kg
		Oral Value: 3.33 mg/kg
Ethanol	:	Fresh water Value: 0.96 mg/l
		Marine water Value: 0.79 mg/l
		Intermittent release Value: 2.75 mg/l
		STP Value: 580 mg/l
		Fresh water sediment Value: 2.6 mg/kg
		Marine sediment Value: 2.9 mg/kg
		Soil Value: 0.63 mg/kg
		Oral Value: 0.72 mg/kg

**8.2 Exposure controls****Appropriate engineering controls**

Effective exhaust ventilation system.

Maintain air concentrations below occupational exposure standards.

**Individual protection measures**

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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Eye/face protection (EN 166)	: Safety goggles Face-shield
Hand protection (EN 374)	: Recommended preventive skin protection Gloves Nitrile rubber butyl-rubber Breakthrough time: 1 – 4 hours Minimum thickness for butyl-rubber 0.3 mm for nitrile rubber 0.2 mm or equivalent (please refer to the gloves manufacturer/distributor for advise). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection (EN 14605)	: Wear suitable protective clothing.
Respiratory protection (EN 143, 14387)	: When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or equivalent, with filter type:A-P

**Environmental exposure controls**

General advice	: Consider the provision of containment around storage vessels.
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**Section: 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: clear, pink
Odour	: characteristic
Flash point	: 46 °C
pH	: not determined
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available

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Relative density	: 1.00 - 1.02
Solubility(ies)	
Water solubility	: soluble in cold water, soluble in hot water
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available

**9.2 Other information**

no data available

**Section: 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : Depending on combustion properties, decomposition products may include following materials:  
Carbon oxides

**Section: 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

**Toxicity**

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**Product**

- Acute oral toxicity : Acute toxicity estimate : 1,755 mg/kg
- Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour
- Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg
- Skin corrosion/irritation : There is no data available for this product.
- Serious eye damage/eye irritation : There is no data available for this product.
- Respiratory or skin sensitization : There is no data available for this product.
- Carcinogenicity : There is no data available for this product.
- Reproductive effects : There is no data available for this product.
- Germ cell mutagenicity : There is no data available for this product.
- Teratogenicity : There is no data available for this product.
- STOT - single exposure : There is no data available for this product.
- STOT - repeated exposure : There is no data available for this product.
- Aspiration toxicity : There is no data available for this product.

**Components**

- Acute oral toxicity : Alcohols, C13, branched, ethoxylated  
LD50 rat: > 500 mg/kg
- ALCOHOLS, C6-12, ETHOXYLATED  
LD50 rat: 7,000 mg/kg
- 2,6-DIMETHYLOCT-7-EN-2-OL  
LD50 rat: 3,600 mg/kg
- Limonene  
LD50 rat: 4,400 mg/kg
- 2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-  
LD50 rat: 6,330 mg/kg
- Citral  
LD50 rat: 4,960 mg/kg
- Ethanol  
LD50 rat: 10,470 mg/kg

**Components**

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Acute inhalation toxicity : Ethanol  
LC50 rat: 117 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

**Components**

Acute dermal toxicity : ALCOHOLS, C6-12, ETHOXYLATED  
LD50 rabbit: > 2,000 mg/kg  
2,6-DIMETHYLOCT-7-EN-2-OL  
LD50 rabbit: > 5,000 mg/kg  
Limonene  
LD50 rabbit: > 5,000 mg/kg  
2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-  
LD50 rabbit: 5,460 mg/kg  
Citral  
LD50 rat: 2,250 mg/kg  
Ethanol  
LD50 rabbit: > 15,800 mg/kg

**Potential Health Effects**

Eyes : Causes serious eye damage.  
Skin : Health injuries are not known or expected under normal use.  
Ingestion : Harmful if swallowed.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

**Experience with human exposure**

Eye contact : Redness, Pain, Corrosion  
Skin contact : No symptoms known or expected.  
Ingestion : No information available.  
Inhalation : No symptoms known or expected.

**Further information** : no data available

**Section: 12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

**Product**

Environmental Effects : Harmful to aquatic life with long lasting effects.  
Toxicity to fish : no data available

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Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

**Components**

Toxicity to fish : Alcohols, C13, branched, ethoxylated  
96 h LC50 Fish: 3 mg/l

ALCOHOLS, C6-12, ETHOXYLATED  
96 h LC50 Fish: 1.5 mg/l

Limonene  
96 h LC50 Fathead Minnow: 0.72 mg/l  
Method: OECD 203

2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-  
96 h LC50 Leuciscus idus (Golden orfe): 68.12 mg/l

Citral  
96 h LC50 Fish: 6.78 mg/l

Ethanol  
96 h LC50 Pimephales promelas (fathead minnow): >  
100 mg/l

**Components**

Toxicity to daphnia and other aquatic invertebrates : Alcohols, C13, branched, ethoxylated  
48 h EC50 Daphnia magna (Water flea): 1.5 mg/l

Limonene  
48 h EC50 Daphnia magna: 0.36 mg/l  
Method: OECD 202

2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-  
48 h EC50 Daphnia magna (Water flea): 14.1 mg/l

**Components**

Toxicity to algae : 2,6-DIMETHYLOCT-7-EN-2-OL  
72 h EC50: 38 mg/l  
72 h EC50: 38 mg/l

Limonene  
72 h EC50 Desmodesmus subspicatus (green algae):  
ca. 8 mg/l  
Method: OECD 201

2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-  
72 h EC50 Desmodesmus subspicatus (green algae):  
3.72 mg/l

Citral  
72 h EC50 Desmodesmus subspicatus (green algae):  
103.8 mg/l  
Method: DIN 38412  
GLP: No

**Components**

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Toxicity to bacteria : Limonene  
3 h EC50 Sewage Microorganisms: 209 mg/l  
Method: OECD 209

**Components**

Toxicity to daphnia and other : Limonene  
aquatic invertebrates (Chronic  
16 d NOEC Daphnia: 0.115 mg/l  
toxicity) Method: Calculated

**12.2 Persistence and degradability**

**Product**

no data available

**Components**

Biodegradability : Alcohols, C13, branched, ethoxylated  
Result: Biodegradable

ALCOHOLS, C6-12, ETHOXYLATED  
Result: Readily biodegradable.

2,6-DIMETHYLOCT-7-EN-2-OL  
Result: Readily biodegradable.

2,6-DIMETHYLOCT-7-EN-2-OL  
Result: Readily biodegradable.

Limonene  
Result: Readily biodegradable.

Limonene  
Result: Readily biodegradable.

2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (E)-  
Result: Readily biodegradable.

Citral  
Result: Readily biodegradable.

3-(4-TERT-BUTYLPHENYL)PROPIONALDEHYDE  
Result: Readily biodegradable.

Ethanol  
Result: Readily biodegradable.

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

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**12.5 Results of PBT and vPvB assessment**

**Product**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

no data available

**Section: 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

**13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.  
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.
- Guidance for Waste Code selection : Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

**Section: 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (ADR/ADN/RID)**

- 14.1 UN number: UN 1987  
14.2 UN proper shipping name: ALCOHOL, N.O.S. (Ethanol)  
14.3 Transport hazard class(es): 3  
14.4 Packing group: III  
14.5 Environmental hazards: No  
14.6 Special precautions for user: Not applicable.

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14.1 UN number:	UN 1987
14.2 UN proper shipping name:	ALCOHOL, N.O.S. (Ethanol)
14.3 Transport hazard class(es):	3
14.4 Packing group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Not applicable.

**Sea transport (IMDG/IMO)**

14.1 UN number:	UN 1987
14.2 UN proper shipping name:	ALCOHOL, N.O.S. (Ethanol)
14.3 Transport hazard class(es):	3
14.4 Packing group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Not applicable.
14.7 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:**

INTERNATIONAL CHEMICAL CONTROL LAWS

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out on the product.

**Section: 16. OTHER INFORMATION****Procedure used to derive the classification according to REGULATION (EC) No 1272/2008**

Classification	Justification
Flammable liquids 3, H226	Based on product data or assessment
Acute toxicity 4, H302	Calculation method
Serious eye damage 1, H318	Calculation method
Chronic aquatic toxicity 3, H412	Calculation method

**Full text of H-Statements**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of

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Materials; bw – Body weight; CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardisation; DSL – Domestic Substances List (Canada); ECHA – European Chemicals Agency; EC-Number – European Community number; ECx – Concentration associated with x% response; ELx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organisation for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; n.o.s. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR – No Observable Effect Loading Rate; NZIoC – New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self-Accelerating Decomposition Temperature; SDS – Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA – Toxic Substances Control Act (United States); UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet : IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

The possible key literature references and data sources which may have been used in conjunction with the consideration of expert judgment to compile this Safety Data Sheet: European regulations/directives (including (EC) No. 1907/2006, (EC) No. 1272/2008), supplier data, inter-net, ESIS, IUCLID, ERcards, Non European official regulatory data and other data sources.

Prepared By : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.