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

Product Identifier: Other means of identification:	Marks and Spencer Foods Christmas Spiced Room Mist
	Homo fragranco
Details of the supplier of the safety data sheet:	Meller Design Solutions
	Unit H, Bedford Business Centre
	Mile Road
	Bedford
	MK42 9TW
Telephone:	+44 (0) 1234 227100
Emergency telephone:	+44 (0) 7715 369270
	Product Identifier: Other means of identification: Uses: Details of the supplier of the safety data sheet: Telephone: Emergency telephone:

#### 2. SECTION 2: Hazards Identification

#### 2.1 Classification of the mixture

GHS/CLP classification according to EC 1272/2008

Flammable aerosols, category 1.	H222	Extremely flammable aerosol.
Flammable aerosols, category 1.	H229	Pressurised container: May burst if heated.

2.2 Label Elements

Label elements according to EC 1272/2008

		J.	
		<u>₹3</u>	
2.2.1	Hazard Pictograms:		
2.2.2	Signal Word:	Danger.	
2.2.3	Named Substances:	None required.	
2.2.4	Hazard Statements:	H222:	Extremely flammable aerosol.
		H229:	Pressurised container: May burst if heated.
2.2.5	Precautionary Statements:	P210:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P211:	Do not spray on an open flame or other ignition source.
		P251:	Do not pierce or burn, even after use.
		P410+412:	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
2.2.6	Supplemental Hazard Statements (EU):	None required.	
2.2.7	Additional labelling:	Use as directed.	
		Do not spray near eyes	s or face.
		Do not breathe spray.	If swallowed week medical advice and show the container.
		Intentional misuse by o	deliberately concentrating and inhaling contents can be harmful or fatal.
2.3	Other Hazards:	Does not contain any n 1907/2006.	naterials classified as PBT or vPvB in accordance with Annex XIII of EC

## 3. SECTION 3: Composition/Information on Ingredients

Description of the mixture:

Multi-component aqueous mixture with solvents and fragrance.

Hazardous ingredients:

Substance name	CAS- No.	EC-No.	Index No.	RRN	% w/w	Classification (EC	SCL and/or
						1272/2008)	M-Factor
Butane	106-97-8	203-448-7	601-004-	01-2119474691-32	16.2	Flam. Gas 1: H220	
			00-0				
Isobutane	75-28-5	200-857-2	601-004-	01-2119485395-27	7.2	Flam. Gas 1: H220	
			00-0				
Propane	74-98-6	200-827-9	601-003-	01-2119486944-21	6.6	Flam. Gas 1: H220	
			00-5				
Ethanol	64-17-5	200-578-6	603-002-	01-2119457610-43	3.36	Flam. Liq. 2: H225	
			00-5			Eye Irrit. 2: H319	
Sodium Benzoate	532-32-1	208-534-8		01-2119460683-35	0.4	Eye Irrit. 2: H319	

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2-tert-Butylcyclohexyl acetate	88-41-5	201-828-7			<0.1	Aquatic Chronic 2: H411	
4,11,11-Trimethyl-8-	87-44-5	201-746-1			<0.1	Asp. Tox. 1: H304	
methylenebicyclo[7.2.0]undec-4-ene							
Benzyl acetate	140-11-4	205-399-7		01-2119638272-42	<0.1	Aquatic Chronic 3: H412	
Sodium nitrite	7632-00-0	231-555-9	007-010-	01-2119471836-27	0.1	Acute Tox. O 3: H301	
			00-4			Eye Irrit. 2: H319	
						Ox. Sol. 3: H272	
						Aquatic Acute 1: H400	
4-Allyl-2-methoxyphenol	97-53-0	202-589-1		01-2119971802-33	0.0493	Skin Sens. 1B: H317	
						Eye Irrit. 2: H319	
4-Isopropenyl-1-methylcyclohexene	5989-27-5	227-813-5	601-029-	01-2119529223-47	0.0423	Flam. Liq. 3: H226	
			00-7			Asp. Tox. 1: H304	
						Skin Irrit. 2: H315	
						Skin Sens. 1B: H317	
						Aquatic Acute 1: H400	
						Aquatic Chronic 1: H410	
2-Methyl-3-phenylpropan-2-yl butyrate	10094-34-5	233-221-8			< 0.025	Aquatic Chronic 2: H411	
4-Allyl-2-methoxyphenol acetate	93-28-7	202-235-6			< 0.025	Acute Tox. O 4: H302	
(2-methoxymethylethoxy)propanol	34590-94-8	252-104-2		01-2119450011-60	< 0.01	Not Classified:	
2-Hydroxy-4-Methoxybenzophenone	131-57-7	205-031-5		01-2119976330-39	< 0.01	Aquatic Acute 1: H400	
						Aquatic Chronic 2: H411	M = 1
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4- bydroxyohenylloropionates	127519-17-9	407-000-3	607-281- 00-4	01-2120060379-51	<0.01	Aquatic Chronic 2: H411	
Allyl (3-methylbutoxy)acetate	67634-00-8	266-803-5			< 0.01	Acute Tox, O 4: H302	
						Skin Irrit, 2: H315	
Decanal	112-31-2	203-957-4		01-2119967771-26	< 0.01	Aquatic Chronic 3: H412	
						Eve Irrit. 2: H319	
Ethyl butyrate	105-54-4	203-306-4		01-2120118576-54	< 0.01	Flam, Lig. 3: H226	
4-Methyl-8-	122760-84-3	406-330-5	603-123-	01-0000015588-59	< 0.009	Skin Sens. 1: H317	
methylenetricyclo[3.3.1.1.(3.7)]decan-			00-3			Aquatic Chronic 2: H411	
2-ol						Skin Irrit 2: H315	
2H-Chromen-2-one	91-64-5	202-086-7		01-2119949300-45	< 0.0075	Acute Tox. D 3: H311	
						Skin Sens. 1B: H317	
						Acute Tox, J 3: H331	
						Aquatic Chronic 2: H411	M = 1
						Acute Tox. O 3: H301	
Prop-2-envl-3-cyclohexylpropanoate	2705-87-5	220-292-5		01-2119976355-27	0.002	Aquatic Chronic 1: H410	M = 1
	2,00 0, 0	220 252 5		01 211007 00000 27	0.002	Acute Tox 0.4: H302	
						Acute Tox D 4: H312	
					1	Skin Sens, 1B <sup>•</sup> H317	
					1	Acute Tox, J 4: H332	
					1	Aquatic Acute 1: H400	M = 1
	1	1	1		1		- T

See section 16 for full text of classifications.

## 4. SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

	Following inhalation:	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to fresh air wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing has stopped. If a heartbeat is absent, give external cardiac compression. Monitor breathing and pulse.
	Following skin contact:	In the event of frostbite, slowly warm the exposed area by rinsing with warm water. Otherwise obtain medical treatment immediately. Contaminated clothing may be a fire hazard and therefore should be soaked with water before being removed. Loosen tight clothing. Keep warm and at rest.
	Following eye contact:	Rinse the eye with water immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Flush thoroughly with water for at least 15 minutes. Get medical assistance. If medical assistance is not available continue to flush with water.
	Following ingestion:	Rinse mouth with water. Do not give anything by mouth to an unconscious person.
4.2	Most important symptoms and effects,	, both acute and delayed
	Symptoms:	Respiratory arrest. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Can cause skin and eve damage due to rapid evaporative cooling.
	Effects:	Respiratory arrest. Frostbite.
4.3	Indication of any immediate medical at	ttention and special treatment needed
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Treat symptomatically. Administer oxygen if necessary. None identified.

## 5. SECTION 5: Fire fighting measures

Notes for the doctor:

Special treatment:

5.1	Extinguishing media:	
	Suitable extinguishing media: Unsuitable extinguishing media:	Water spray or fog, foam and dry powder. <b>Do not use carbon dioxide</b> .
5.2	Special hazards:	
	Hazardous combustion products:	Heat may cause the containers to explode. Oxides of carbon and unidentified organic compounds may be formed.
5.3	Advice for fire-fighters:	
	Additional Information:	Stop leak if it is safe to do so. Do not extinguish flames at leak because the possibility of uncontrolled explosive re-ignition exists. Continue water spray from a protected position until container stays cool. Use extinguishers to contain the fire. Use water spray to keep containers close to the fire cool. Isolate the source of the fire or let it burn out. Wear self-contained breathing apparatus.

## 6. SECTION 6: Accidental release measures

6.1	Personal precautions, protective eq	Personal precautions, protective equipment and emergency procedure:				
	For non-emergency personnel					
	Protective equipment:	Laboratory coat or overalls, eye protection and gloves.				
	Emergency procedures:	Evacuate area. Provide adequate ventilation. Consider the risk of potentially explosive atmospheres. Eliminate all ignition sources if safe to do so. Monitor the concentration of the released product. Prevent from entering sewers, basements, or any place where its accumulatic can be dangerous. Wear self-contained breathing apparatus when entering area unless the atmosphere is proved to be safe (EN 137 Respiratory protective devices – Self-contained open- circuit compressed air breathing apparatus will full face mask).				
	For emergency personnel					
	Personal protective equipment:	Wear self-contained breathing apparatus.				
6.2	Environmental precautions:	Inform fire brigade of large spillages. Prevent further leakage or spillage if safe to do so.				
6.3	Methods and material for containm	ent and cleaning up:				
	For containment:	Provide adequate ventilation. Eliminate sources of ignition.				
	For cleaning up:	Provide adequate ventilation.				
	Other information:	Dispose of any waste containers in accordance with local regulations.				
6.4	Reference to other sections:	See section 8 and section 13.				

## 7. SECTION 7: Handling and storage

7.1	Precautions for safe handling:	
	Protective measures	
	Advice on safe handling:	Always transport in closed, upright and secure containers. Ensure that adequate ventilation is supplied to areas where the product is being worked with.
	Fire preventions:	Store in a cool, dry place away from sources of ignition.
	Aerosol and dust generation prevention:	Do not activate cans.
	Environmental precautions:	Avoid leaks and keep away from sources of heat and/or ignition.
	Advice on general occupational hygiene:	Do not eat, drink or smoke in work areas. Wash hands after use. Remove any contaminated clothing and personal protective equipment when leaving work areas/before entering eating areas.

## Safety Data Sheet

according to regulation (EC) No. 1907/2006

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## 7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions:	Store in well-fitted and tightly closed containers; protect from heat and light.
Packaging materials:	Store in original containers; protect from sources of heat and ignition. Containers should not be stored in conditions likely to encourage corrosion.
Requirements for storage rooms and vessels	: Store in a cool, dry and ventilated area. Keep away from sources of ignition and naked flames. All electrical equipment in the storage area should be compatible with the risk of a potentially explosive atmosphere.
Hints on storage assembly:	Ensure that adequate ventilation is available.
Incompatible materials:	Combustible materials and oxidants.
Specific end uses:	
Recommendations:	Follow the directions for use supplied with the product. Any uses other than those indicated are not recommended and should be subject to a safety assessment at the risk of the user.
Specific end uses:	Home fragrance.

## 8. SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

7.3

#### 8.1.1 Occupational exposure limits

Substance	WEL-STEL mg/m <sup>3</sup>	WEL-STEL ppm	WEL_TWA mg/m <sup>3</sup>	WEL-TWA ppm	Comments	Source
Butane	600	1450	750	1810		EH40
Isobutane			2400	1000		TRGS 900
Propane			1800	1000		TRGS 900
Ethanol			1920	1000		EH40
(2-methoxymethylethoxy)propanol			308	50		EH40

#### 8.1.2 Biological limit values

Substance	Limit value	Test material	Time of sampling	Source
No information available				

#### 8.1.3 Exposure limits at intended use

Not determined.

#### 8.1.4 DNEL/PNEC-values

#### DNELs/DMELs

Substance	Туре	Exposure	Value	Population	Effects
Ethanol	DNEL	Long term dermal	343 mg/kg bw/day	Workers	Systemic
Ethanol	DNEL	Long term inhalation	950 mg/m³	Workers	Systemic
Ethanol	DNEL	Short term inhalation	1900 mg/m <sup>3</sup>	Workers	Local
Ethanol	DNEL	Short term inhalation	950 mg/m³	Consumers	Local
Ethanol	DNEL	Long term dermal	206 mg/kg bw/day	Consumers	Systemic
Ethanol	DNEL	Long term inhalation	114 mg/m <sup>3</sup>	Consumers	Systemic
Ethanol	DNEL	Long term oral	87 mg/kg bw/day	Consumers	Systemic
Sodium Benzoate	DNEL	Long term inhalation	3 mg/m³	Workers	Systemic
Sodium Benzoate	DNEL	Long term inhalation	0.1 mg/m <sup>3</sup>	Workers	Local
Sodium Benzoate	DNEL	Long term dermal	62.5 mg/kg bw/day	Workers	Systemic
Sodium Benzoate	DNEL	Long term inhalation	1.5 mg/m <sup>3</sup>	Consumers	Systemic
Sodium Benzoate	DNEL	Long term inhalation	0.06 mg/m <sup>3</sup>	Consumers	Local
Sodium Benzoate	DNEL	Long term dermal	31.25 mg/kg bw/day	Consumers	Systemic
Sodium Benzoate	DNEL	Long term oral	16.6 mg/kg bw/day	Consumers	Systemic
Benzyl acetate	DNEL	Long term dermal	6.25 mg/kg bw/day	Workers	Systemic
Benzyl acetate	DNEL	Short term inhalation	43.8 mg/m <sup>3</sup>	Workers	Systemic
Benzyl acetate	DNEL	Long term inhalation	21.9 mg/m <sup>3</sup>	Workers	Systemic
Benzyl acetate	DNEL	Short term dermal	12.5 mg/kg bw/day	Workers	Systemic
Benzyl acetate	DNEL	Short term oral	6.25 mg/kg bw/day	Consumers	Systemic
Benzyl acetate	DNEL	Long term inhalation	5.5 mg/m <sup>3</sup>	Consumers	Systemic
Benzyl acetate	DNEL	Short term inhalation	11 mg/m <sup>3</sup>	Consumers	Systemic
Benzyl acetate	DNEL	Long term dermal	3.125 mg/kg bw/day	Consumers	Systemic
Benzyl acetate	DNEL	Short term dermal	6.25 mg/kg bw/day	Consumers	Systemic
Benzyl acetate	DNEL	Long term oral	3.125 mg/kg bw/day	Consumers	Systemic
Sodium nitrite	DNEL	Long term inhalation	2 mg/m <sup>3</sup>	Workers	Systemic
Sodium nitrite	DNEL	Short term inhalation	2 mg/m <sup>3</sup>	Workers	Systemic

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4-Allyl-2-methoxyphenol	DNEL	Long term inhalation	21.2 mg/m <sup>3</sup>	Workers	Systemic
4-Allyl-2-methoxyphenol	DNEL	Long term dermal	6 mg/kg bw/day	Workers	Systemic
4-Allyl-2-methoxyphenol	DNEL	Long term inhalation	5.22 mg/m <sup>3</sup>	Consumers	Systemic
4-Allyl-2-methoxyphenol	DNEL	Long term dermal	3 mg/kg bw/day	Consumers	Systemic
4-Allyl-2-methoxyphenol	DNEL	Long term oral	3 mg/kg bw/day	Consumers	Systemic
4-Isopropenyl-1-methylcyclohexene	DNEL	Short term dermal	222 μg/cm <sup>2</sup>	Workers	Local
4-Isopropenyl-1-methylcyclohexene	DNEL	Long term inhalation	33.3 mg/m <sup>3</sup>	Workers	Systemic
4-Isopropenyl-1-methylcyclohexene	DNEL	Short term dermal	111 μg/cm²	Consumers	Local
4-Isopropenyl-1-methylcyclohexene	DNEL	Long term oral	4.76 mg/kg bw/day	Consumers	Systemic
4-Isopropenyl-1-methylcyclohexene	DNEL	Long term inhalation	8.33 mg/m <sup>3</sup>	Consumers	Systemic
(2-methoxymethylethoxy)propanol	DNEL	Long term dermal	283 mg/kg bw/day	Workers	Systemic
(2-methoxymethylethoxy)propanol	DNEL	Long term inhalation	308 mg/m <sup>3</sup>	Workers	Systemic
(2-methoxymethylethoxy)propanol	DNEL	Long term inhalation	37.2 mg/m <sup>3</sup>	Consumers	Systemic
(2-methoxymethylethoxy)propanol	DNEL	Long term dermal	121 mg/kg bw/day	Consumers	Systemic
(2-methoxymethylethoxy)propanol	DNEL	Long term oral	36 mg/kg bw/dav	Consumers	Systemic
2-Hydroxy-4-Methoxybenzophenone	DNEL	Long term dermal	39 mg/kg bw/day	Workers	Systemic
2-Hydroxy-4-Methoxybenzophenone	DNEL	Long term inhalation	27.7 mg/m <sup>3</sup>	Workers	Systemic
2-Hydroxy-4-Methoxybenzophenone	DNEL	Long term oral	2 mg/kg bw/dav	Consumers	Systemic
2-Hydroxy-4-Methoxybenzophenone	DNEL	Long term inhalation	6.8 mg/m <sup>3</sup>	Consumers	Systemic
2-Hydroxy-4-Methoxybenzophenone	DNEL	Long term dermal	20 mg/kg bw/day	Consumers	Systemic
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-	DNEL	Long term dermal	0.5 mg/kg bw/day	Workers	Systemic
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-					-,
hydroxyphenyl]propionates					
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-	DNEL	Long term inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-		-	-		
hydroxyphenyl]propionates					
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-	DNEL	Long term dermal	0.25 mg/kg bw/day	Consumers	Systemic
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-					
hydroxyphenyl]propionates					
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-	DNEL	Long term inhalation	0.085 mg/m³	Consumers	Systemic
benzotriazoi-2-yi)-5-(1,1-dimetnyietnyi)-4-					
A mixture of branched and linear C7.0 alloul 2.12 (2H	DNEL	Long torm oral	0.025 mg/kg bw/day	Consumars	Sustamic
henzotriazol-2-vl)-5-(1 1-dimethylethyl)-4-	DINEL	Long term oran	0.025 mg/kg bw/uay	consumers	Systemic
hydroxyphenyl]propionates					
Decanal	DNEL	Long term dermal	7 mg/kg bw/day	Workers	Systemic
Decanal	DNEL	Long term inhalation	24.9 mg/m <sup>3</sup>	Workers	Systemic
Decanal	DNEL	Long term dermal	3.5 mg/kg bw/day	Consumers	Systemic
Decanal	DNEL	Long term oral	3.5 mg/kg bw/day	Consumers	Systemic
Decanal	DNEL	Long term inhalation	6.1 mg/m <sup>3</sup>	Consumers	Systemic
2H-Chromen-2-one	DNEL	Long term inhalation	0 741 mg/m <sup>3</sup>	Workers	Systemic
2H-Chromen-2-one	DNEL	Long term oral	0.42 mg/kg bw/day	Consumers	Systemic
2H-Chromen-2-one	DNEL	Long term dermal	0.42 mg/kg bw/day	Consumers	Systemic
2H-Chromen-2-one	DNFI	Long term dermal	0.84 mg/kg bw/day	Consumers	Systemic
2H-Chromen-2-one	DNEL	Long term inhalation	0.183 mg/m <sup>3</sup>	Consumers	Systemic
Prop-2-envl-3-cvclohexylpropanoate	DNFI	Long term inhalation	15 mg/m <sup>3</sup>	Workers	Systemic
Prop-2-envl-3-cvclohexylpropanoate	DNFI	Long term dermal	4 3 mg/kg hw/day	Workers	Systemic
Prop-2-envl-3-cyclohexylpropanoate	DNFI	Long term oral	2 1 mg/kg bw/day	Consumers	Systemic
Prop-2-envl-3-cyclohexylpropanoate	DNFI	Long term inhalation	3.7 mg/m <sup>3</sup>	Consumers	Systemic
Prop-2-envl-3-cyclohexylpropanoate	DNE	Long term dermal	2.1 mg/kg hw/day	Consumers	Systemic
	DIVLL	Long term derma		consumers	Systemic

## PNECs

Substance	Compartment Detail	Value	Method Detail
Ethanol	Marine water	0.79 mg/l	Assessment factors
Ethanol	Intermittent release	2.75 mg/l	Assessment factors
Ethanol	Sewage Treatment Plant	580 mg/l	Assessment factors
Ethanol	Sediment, fresh water	3.6 mg/kg	Partition coefficient
Ethanol	Sediment, marine water	2.9 mg/kg	Partition coefficient
Ethanol	Soil	0.63 mg/kg	Assessment factors
Ethanol	Secondary poisoning	0.72 g/kg	Assessment factors
Ethanol	Fresh water	0.96 mg/l	Assessment factors
Sodium Benzoate	Intermittent release	305 μg/l	Assessment factors
Sodium Benzoate	Secondary poisoning	300 mg/kg	Assessment factors
Sodium Benzoate	Sediment, marine water	0.176 mg/kg	Partition coefficient
Sodium Benzoate	Sewage Treatment Plant	10 mg/l	Assessment factors
Sodium Benzoate	Soil	0.276 mg/kg	Partition coefficient
Sodium Benzoate	Marine water	0.013 mg/l	Assessment factors
Sodium Benzoate	Fresh water	0.13 mg/l	Assessment factors
Sodium Benzoate	Sediment, fresh water	1.76 mg/kg	Partition coefficient
Benzyl acetate	Sediment, fresh water	0.114 mg/kg	
Benzyl acetate	Sediment, marine water	0.0114 mg/kg	
Benzyl acetate	Soil	0.0205 mg/kg	
Benzyl acetate	Fresh water	0.004 mg/l	

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Benzyl acetate	Marine water	0.0004 mg/l	
Benzyl acetate	Intermittent release	0.04 mg/l	
Benzyl acetate	Sewage Treatment Plant	8.55 mg/l	
Sodium nitrite	Marine water	0.006 mg/l	Assessment factors
Sodium nitrite	Soil	0.001 mg/kg	Equilibrium partitioning method
Sodium nitrite	Sewage Treatment Plant	21 mg/l	Assessment factors
Sodium nitrite	Fresh water	0.005 mg/l	Assessment factors
Sodium nitrite	Sediment, marine water	0.022 mg/kg	Equilibrium partitioning method
Sodium nitrite	Sediment, fresh water	0.019 mg/kg	Equilibrium partitioning method
4-Allyl-2-methoxyphenol	Sediment, fresh water	0.081 mg/kg	Partition coefficient
4-Allyl-2-methoxyphenol	Fresh water	1.13 μg/l	Assessment factors
4-Allyl-2-methoxyphenol	Sediment, marine water	0.0081 mg/kg	Partition coefficient
4-Allyl-2-methoxyphenol	Marine water	11.3 μg/l	Assessment factors
4-Allyl-2-methoxyphenol	Soil	0.115 μg/1	Partition coefficient
4-Isopropenyl-1-methylcyclohexene	Fresh water	5.4 µg/l	Assessment factors
4-Isopropenyl-1-methylcyclohexene	Secondary poisoning	3.33 mg/kg	Assessment factors
4-Isopropenyl-1-methylcyclohexene	Soil	0.262 mg/kg	Partition coefficient
4-Isopropenyl-1-methylcyclohexene	Sediment, marine water	0.13 mg/kg	Partition coefficient
4-Isopropenyl-1-methylcyclohexene	Sediment, fresh water	1.32 mg/kg	Partition coefficient
4-Isopropenyl-1-methylcyclohexene	Marine water	0.54 μg/l	Assessment factors
4-Isopropenyl-1-methylcyclohexene	Sewage Treatment Plant	1.8 mg/l	Assessment factors
(2-methoxymethylethoxy)propanol	Marine water	1.9 mg/l	Assessment factors
(2-methoxymethylethoxy)propanol	Intermittent release	190 mg/l	Assessment factors
(2-methoxymethylethoxy)propanol	Sewage Treatment Plant	4168 mg/l	
(2-methoxymethylethoxy)propanol	Sediment, fresh water	70.2 mg/kg	Partition coefficient
(2-methoxymethylethoxy)propanol	Sediment, marine water	7.02 mg/kg	Partition coefficient
(2-methoxymethylethoxy)propanol	Soil	2.74 mg/kg	Partition coefficient
(2-methoxymethylethoxy)propanol	Fresh water	19 mg/l	Assessment factors
2-Hydroxy-4-iviethoxybenzophenone	Fresh water	0.07 µg/1	Assessment factors
2-Hydroxy-4-Methoxybenzophenone	Intermittent release	0.007 μg/1	Assessment factors
2-Hydroxy-4-Methoxybenzophenone	Sewage Treatment Plant	10 mg/l	Assessment factors
2-Hydroxy-4-Methoxybenzophenone	Sediment, fresh water	0.066 mg/kg	Partition coefficient
2-Hydroxy-4-Methoxybenzophenone	Sediment, marine water	0.0066 mg/kg	Partition coefficient
2-Hydroxy-4-Methoxybenzophenone	Soil	0.013 mg/kg	Partition coefficient
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]propionates	Sediment, marine water	728 mg/kg	Partition coefficient
A mixture of branched and linear C7-9 alkyl 3-[3-[2H-benzotriazol-2-yi]-5-[1,1- dimethylethyl]-4-hydroxyphenyl]propionates	Fresh water	0.043 mg/l	Assessment factors
A mixture of branched and linear C7-9 aikyi 3-[3-[2H-benzotriazoi-2-yi]-5-[1,1- dimethylethyl]-4-hydroxyphenyl]propionates	Marine water	0.004 mg/l	Assessment factors
A mixture of branched and linear C7-9 alkyl 3-(2. (2H-benzotriazol-2-yi)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]propionates	Sediment freshwater	0.032 mg/l	Assessment factors
dimethylethyl)-4-hydroxyphenyl]propionates A mixture of branched and linear C2-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1 1-	Soil	1450 mg/kg	Partition coefficient
dimethylethyl)-4-hydroxyphenyl]propionates A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-	Sewage Treatment Plant	10 mg/l	Assessment factors
dimethylethyl)-4-hydroxyphenyl]propionates Decanal	Intermittent release	 11.7 μg/l	Assessment factors
Decanal	Sewage Treatment Plant	3.16 mg/l	Assessment factors
Decanal	Sediment, fresh water	0.0972 mg/kg	Partition coefficient
Decanal	Sediment, marine water	0.00972 mg/kg	Partition coefficient
Decanal	Soil	0.0187 mg/kg	Partition coefficient
Decanal	Secondary poisoning	313 mg/kg	Assessment factors
Decanal	Fresh water	1.17 μg/l	Assessment factors
Decanal	Marine water	0.117 μg/l	Assessment factors
2H-Chromen-2-one	Intermittent release	0.056 mg/l	Assessment factors
ZH-Unromen-2-one	Sewage Freatment Plant	10 mg/l	Assessment factors
ZH-Unromen-2-one	Soli	0.022 mg/kg	Partition coefficient
2H-Chromen-2-011e	Marine water	0.207 mg/kg	
2H-Chromen-2-one	Fresh water	0.001 mg/l	Assessment factors
2H-Chromen-2-one	Sediment marine water	0.000 mg/l	Partition coefficient
Prop-2-envl-3-cyclohexylpropanoate	Secondary poisoning	143 mg/kg	Assessment factors
Prop-2-enyl-3-cyclohexylpropanoate	Fresh water	0.13 μg/l	Assessment factors
Prop-2-enyl-3-cyclohexylpropanoate	Marine water	0.013 μg/l	Assessment factors
Pron-2-envl-3-cvclohexvlpronanoate	Intermittent release	1.3 µg/l	Assessment factors

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Prop-2-enyl-3-cyclohexylpropanoate	Sewage Treatment Plant	0.2 mg/l	Assessment factors
Prop-2-enyl-3-cyclohexylpropanoate	Sediment, fresh water	24.13 μg/kg	Partition coefficient
Prop-2-enyl-3-cyclohexylpropanoate	Sediment, marine water	2.413 μg/kg	Partition coefficient
Prop-2-enyl-3-cyclohexylpropanoate	Soil	4.75 μg/kg	Partition coefficient

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Give adequate ventilation to the premises where the product is stored and/or handled. All electrical equipment in the storage area should be compatible with the risk of a potentially explosive atmosphere.

## 8.2.2 Personal protective equipment:

Protection for eyes:	Avoid contact. Wear safety glasses/goggles to standard EN 166, frame class 3.
Protection for skin:	Avoid contact. Wear suitable gloves (e.g. EN374). If contact with liquefied product is anticipated,
	gloves should be thermally insulated to prevent cold burns.
Protection for hands:	Avoid prolonged or repeated exposure. Use chemically resistant gloves as needed e.g. butyl rubber
	or nitrile rubber to standard EN 420: 2003, protective index 6. Wear working gloves if moving large
	containers. Guideline: EN 388 Protective gloves against mechanical risks.
Protection for respiratory tract:	Use a suitable air-purifying or air-fed respirator if anticipated exposure levels indicate a possible hazard or exceed safe working limits.

#### 9. SECTION 9: Physical and chemical properties

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

Appearance – Physical state:	Liquefied gas in liquid
Appearance – Colour:	pale yellow
Odour:	Spice
Odour threshold:	Not determined
pH:	7
Melting point:	Not determined
Initial boiling point/boiling range:	-10°C
Flash point:	<-50°C (estimated)
Evaporation rate:	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.8 g/ml
Solubility in water:	Completely miscible
Partition co-efficient: n-octanol/water:	Not determined
Auto ignition temperature:	365°C (for propellant)
Viscosity:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not applicable
Other information:	None

## 10. SECTION 10: Stability and reactivity

10.1	Reactivity:	Not reactive under normal storage conditions.
10.2	Chemical stability:	Stable under normal storage conditions.
10.3	Possibility of hazardous reactions:	Stable under normal storage conditions
10.4	Conditions to avoid:	Avoid extremes of temperature and ignition sources
10.5	Incompatible materials:	Oxidisers
10.6	Hazardous decomposition products:	None known

## 11. SECTION 11: Toxicological information

This preparation has not been subject to toxicological testing as an entity; therefore no specific LD50/LC50 values have been determined. The toxicological information available relating to the ingredients and their concentrations enables the evaluation of this preparation.

**11.1** Information on toxicological effects

#### Acute toxicity

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Substance	Result	Species	Dose	Exposure
Butane	LC₅₀ Inhalation	Rat	658 mg/l	4 hours
Isobutane	$LC_{50}$ Inhalation	Rat	5700 ppm	15 minutes
Propane	LC <sub>50</sub> Inhalation	Rat	1443 mg/l	15 minutes
Ethanol	LD <sub>50</sub> Oral	Rat	1047 mg/kg	
Ethanol	LD₅o Dermal	Rabbit	>2000 mg/kg	
Ethanol	LC₅₀ Inhalation, vapour	Mouse	>20 mg/l	4 hours
Sodium Benzoate	LD₅o Oral	Rat	>2000 mg/kg	
Sodium Benzoate	LD₅o Dermal	Rabbit	>2000 mg/kg	
Sodium Benzoate	LD₅o Oral	Rat	2100 mg/kg	
2-tert-Butylcyclohexyl acetate	LD₅o Oral	Rat	4600 mg/kg	
2-tert-Butylcyclohexyl acetate	LD₅o Dermal	Rabbit	>5000 mg/kg	
Benzyl acetate	LD₅o Dermal	Rabbit	>5 g/kg	
Benzyl acetate	LD₅o Oral	Rat	2490 mg/kg	
Sodium nitrite	LD₅o Oral	Mouse	175 mg/kg	
Sodium nitrite	LD₅o Oral	Rat	157.9 mg/kg	
4-Allyl-2-methoxyphenol	LD₅o Oral	Mouse	>1500 mg/kg	
4-Allyl-2-methoxyphenol	LD₅o Oral	Rat	>2000 mg/kg	
4-Allyl-2-methoxyphenol	LC₅₀ Inhalation	Rat	>2.6 mg/l	4 hours
4-Isopropenyl-1-methylcyclohexene	LD₅o Oral	Rat	>5000 mg/kg	
2-Methyl-3-phenylpropan-2-yl butyrate	LD₅o Dermal	Rabbit	>5000 mg/kg	
2-Methyl-3-phenylpropan-2-yl butyrate	LD₅o Oral	Rat	>5000 mg/kg	
4-Allyl-2-methoxyphenol acetate	LD₅o Dermal	Rabbit	>5000 mg/kg	
4-Allyl-2-methoxyphenol acetate	LD₅o Oral	Rat	1670 mg/kg	
(2-methoxymethylethoxy)propanol	LC₅₀ Inhalation, vapour	Rat	55 - 60 mg/l	4 hours
(2-methoxymethylethoxy)propanol	LD₅o Oral	Rat	5135 mg/kg	
(2-methoxymethylethoxy)propanol	LD₅o Dermal	Rat	9500 mg/kg	
(2-methoxymethylethoxy)propanol	LD <sub>50</sub> Dermal	Rabbit	13000 - 14000 mg/kg	
2-Hydroxy-4-Methoxybenzophenone	LD₅o Oral	Rat	>1280 mg/kg	
2-Hydroxy-4-Methoxybenzophenone	LD₅o Dermal	Rabbit	>1600 mg/kg	
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]propionates	LD <sub>50</sub> Dermal	Rat	>2000 mg/kg	
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]propionates	LC₅₀ Inhalation	Rat	>5.8 mg/l	4 hours
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-	LD₅o Oral	Rat	>2000 mg/kg	
dimethylethyl)-4-hydroxyphenyl]propionates				
Decanal	LD₅o Dermal	Rabbit	>5000 mg/kg	
Decanal	LD₅o Oral	Rat	>5000 mg/kg	
Ethyl butyrate	LD₅o Oral	Rat	13050 mg/kg	
Ethyl butyrate	LD₅o Dermal	Rabbit	>2000 mg/kg	
2H-Chromen-2-one	LD₅o Oral	Rat	293 mg/kg	
2H-Chromen-2-one	LC₅₀ Inhalation	Rat	293 mg/kg	
2H-Chromen-2-one	LD₅o Dermal	Rat	293 mg/kg	
Prop-2-enyl-3-cyclohexylpropanoate	LD₅o Oral	Rat	585 mg/kg	
Prop-2-envl-3-cvclohexvlpropanoate	LD <sub>50</sub> Dermal	Rabbit	1600 mg/kg	

## Acute toxicity estimates

Route	ATE Value
Oral	>5000 mg/kg
Dermal	>5000 mg/kg
Inhalation	>20 mg/l

## Irritation/Corrosion

Substance	Skin/Eyes	Species	Score	Method/Exposure	Observation
			Cornea = 1.1, iris = 0.44,		
Ethanol	Eyes	Rabbit	conjunctivae = 2.1, chemosis = 1.3	OECD 405	
Ethanol	Skin	Rabbit	Erythem = 0, oedema = 0	OECD 404	24 hours
Sodium Benzoate	Skin	Rabbit	Erythema = 0, oedema = 0	OECD 404	4 hours
			Cornea = 0, iris = 0, conjunctivae =		
Sodium Benzoate	Eyes	Rabbit	2.44, chemosis = 0.67	OECD 405	24 hours
Benzyl acetate	Skin	Rabbit	Erythema = 0.89, oedema = 0.33	EU Method B.4	4 hours
			Cornea = 0, iris = 0, conjunctivae =		
Benzyl acetate	Eyes	Rabbit	0.11, chemosis = 0	EU Method B.5	
Sodium nitrite	Eyes	Rabbit	Cornea = 0	OECD 405	24 hours
			Overall irritation score = 54 @ 24		
4-Allyl-2-methoxyphenol	Eyes	Rabbit	hours	OECD 405	24 hours
4-Allyl-2-methoxyphenol	Skin	Rabbit	Erythema = 1.9, oedema = 1	OECD 404	4 hours
4-Isopropenyl-1-methylcyclohexene	Skin	Rabbit	Erythema = 2, oedema = 1.6	OECD 404	4 hours
4-Isopropenyl-1-methylcyclohexene	Eyes	Rabbit	Cornea = 0, iris = 0, conjunctivae	OECD 405	

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			0.9, chemosis = 0.8		
(2-methoxymethylethoxy)propanol	Eyes	Human	Expert judgement		60 minutes
			Cornea = 0.4, iris = 0, conjunctivae =		
(2-methoxymethylethoxy)propanol	Eyes	Rabbit	1.4, chemosis = 0.6	Draize	
(2-methoxymethylethoxy)propanol	Skin	Rabbit	erythema = 0, oedema = 0	OECD 404	2 hours
2-Hydroxy-4-Methoxybenzophenone	Skin	Rabbit	erythema = 0, oedema = 0	OECD 404	4 hours
			Cornea = 0, iris = 0, conjunctivae =		
2-Hydroxy-4-Methoxybenzophenone	Eyes	Rabbit	1, chemosis = 0	OECD 405	72 hours
A mixture of branched and linear C7-9 alkyl 3-[3-					
(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-					
hydroxyphenyl]propionates	Skin	Rabbit	Erythema = 0.2, oedema = 0	OECD 404	4 hours
A mixture of branched and linear C7-9 alkyl 3-[3-					
(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-			Cornea = 0, iris = 0, conjunctivae =		
hydroxyphenyl]propionates	Eyes	Rabbit	1, chemosis = 0	OECD 405	
			Cornea = 0, iris = 0, conjunctivae =		
Decanal	Eyes	Rabbit	2, chemosis = 0.95	EU Method B.5	
Decanal	Skin	Rabbit	Erythema = 2.1, oedema = 1.3	EU Method B.4	4 hours
			Overall irritatyion score - mildly		
Ethyl butyrate	Skin	Rabbit	irritating	Ocluded	24 hours
				In-vivo, read-	
2H-Chromen-2-one	Skin	Rabbit	PDII = 1.15	across	
				In-vivo, read-	
2H-Chromen-2-one	Eyes	Rabbit	MMAS = 10.7	across	
			Cornea = 0, iris = 0, conjunctivae =		
Prop-2-enyl-3-cyclohexylpropanoate	Eyes	Rabbit	0.8, chemosis = 0	OECD 405	24 hours
		Human			
Prop-2-enyl-3-cyclohexylpropanoate	Skin	skin model	Tissue viability = 93.9%	OECD 439	15 minutes

#### Sensitization

Substance	Route of exposure	Method	Species	Result
Ethanol	Skin	OECD 406	Guinea Pig	Not sensitizing
Sodium Benzoate	Skin	Buehler test	Guinea Pig	Not sensitizing
Sodium Benzoate	Skin	Local lymph node assay	Mouse	Not sensitizing
Benzyl acetate	Skin		Guinea Pig	Not sensitizing
4-Allyl-2-methoxyphenol	Skin	OECD 429	Mouse	Sensitizing
4-Isopropenyl-1-methylcyclohexene	Skin	OECD 429	Mouse	Sensitizing
(2-methoxymethylethoxy)propanol	Skin		Human	Not sensitizing
2-Hydroxy-4-Methoxybenzophenone	Skin	OECD 429	Mouse	Not sensitizing
2-Hydroxy-4-Methoxybenzophenone	Skin	OECD 406	Guinea Pig	Not sensitizing
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5- (1,1-dimethylethyl)-4-hydroxyphenyl]propionates	Skin	OECD 406	Guinea Pig	Not sensitizing
Decanal	Skin	Draize HRIPT	Human	Not sensitizing
Ethyl butyrate	Skin	Maximisation Test	Human	Not sensitizing
2H-Chromen-2-one	Skin	Literature review		Sensitizing
Prop-2-enyl-3-cyclohexylpropanoate	Skin	OECD 406	Guinea Pig	Sensitizing

## Germ cell mutagenicity

Substance	Test	Experiment	Result
Butane	OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
Butane	OECD 473 Mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
Butane	OECD 474 Mammalian erythrocyte micronucleus test	In vivo, animal - mammalian	Negative
Isobutane	OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
Isobutane	OECD 474 Mammalian erythrocyte micronucleus test	In vivo, animal - mammalian	Negative
Isobutane	OECD 473 Mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
Propane	OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
Propane	OECD 474 Mammalian erythrocyte micronucleus test	In vivo, animal - mammalian	Negative
Propane	OECD 473 Mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
Ethanol	OECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and	In vitro, animal, mammalian	Negative
	xprt genes		
Ethanol	OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
Sodium Benzoate	OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
Sodium Benzoate	in vitro mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
Sodium Benzoate	OECD 475 Mammalian Bone Marrow Chromosome Aberration Test	In vivo, animal - mammalian	Negative
Benzyl acetate	Bacterial reverse mutation assay	In vitro, bacteria	Negative
Benzyl acetate	Chromosome abberation test	In vitro, animal, mammalian	Negative
4-Allyl-2-methoxyphenol	OECD 482 Genetic Toxicology: DNA Damage and Repair,	In vitro, animal, mammalian	Negative
	Unscheduled DNA Synthesis in Mammalian Cells In Vitro		
4-Allyl-2-methoxyphenol	OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
4-Isopropenyl-1-methylcyclohexene	OECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and	In vitro, animal, mammalian	Negative
	xprt genes		
4-Isopropenyl-1-methylcyclohexene	Comet Assay (Tice at al., 2000)	In vivo, animal, mammalian	Negative
(2-methoxymethylethoxy)propanol	OECD Guideline 481 Genetic Toxicology: Saccharomyces cerevisiae,	In vitro, yeast	Negative
	Mitotic Recombination Assay		

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OECD 473 Mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
OECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and	In vitro, animal, mammalian	Negative
xprt genes		
OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
OECD 473 Mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
OECD 474 Mammalian erythrocyte micronucleus test	In vivo, animal - mammalian	Negative
Chromosmal abberation test	In vitro, animal, mammalian	Negative
Ames Test	In vitro, bacteria	Negative
OECD 471 Bacterial reverse mutation test	In vitro, bacteria	Negative
OECD 474 Mammalian erythrocyte micronucleus test	In vivo, animal - mammalian	Negative
OECD Guideline 479 Sister Chromatid Exchange Assay in	In vitro, animal, mammalian	Negative
Mammalian Cells		
OECD 473 Mammalian chromosome aberration test	In vitro, animal, mammalian	Negative
OECD 487 In Vitro Mammalian Cell Micronucleus Test	In vitro, animal, mammalian	Negative
OECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and	In vitro, animal, mammalian	Negative
xprt genes		
	OECD 473 Mammalian chromosome aberration test   OECD 471 Bacterial reverse mutation test   OECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes   OECD 471 Bacterial reverse mutation test   OECD 473 Mammalian chromosome aberration test   OECD 471 Bacterial reverse mutation test   OECD 474 Mammalian erythrocyte micronucleus test   Chromosmal abberation test   Ames Test   OECD 473 Mammalian erythrocyte micronucleus test   OECD 474 Mammalian erythrocyte micronucleus test   OECD 473 Bacterial reverse mutation test   OECD 474 Mammalian erythrocyte micronucleus test   OECD 473 Bacterial reverse mutation test   OECD 473 Mammalian erythrocyte micronucleus test   OECD 473 Mammalian erythrocyte micronucleus test   OECD 473 Mammalian erythrocyte micronucleus test   OECD 473 Mammalian cells   OECD 473 Mammalian chromosome aberration test   OECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	OECD 473 Mammalian chromosome aberration testIn vitro, animal, mammalianOECD 471 Bacterial reverse mutation testIn vitro, bacteriaOECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and xprt genesIn vitro, animal, mammalianOECD 471 Bacterial reverse mutation testIn vitro, bacteriaOECD 473 Mammalian chromosome aberration testIn vitro, bacteriaOECD 473 Mammalian chromosome aberration testIn vitro, animal, mammalianOECD 471 Bacterial reverse mutation testIn vitro, bacteriaOECD 474 Mammalian erythrocyte micronucleus testIn vitro, animal, mammalianChromosmal abberation testIn vitro, bacteriaOECD 471 Bacterial reverse mutation testIn vitro, bacteriaOECD 473 Mammalian erythrocyte micronucleus testIn vitro, bacteriaOECD 473 Mammalian erythrocyte micronucleus testIn vitro, animal, mammalianOECD 473 Mammalian cellsIn vitro, animal, mammalianOECD 473 Mammalian chromosome aberration testIn vitro, animal, mammalianOECD 476 Mammalian Cell Gene Mutation Tests using the Hprt and xprt genesIn vitro, animal, mammalian

## Carcinogenicity

Substance	Where listed	Group	Comments
Benzyl acetate	IARC	3	Not classifiable as to its carcinogenicity to humans

## Reproductive toxicity

Substance	Toxicity	Effect	Concentration	Exposure	Exposure	Species	Method	Evaluation	Remarks
		Dose		Route	Duration				
Butane	Maternal	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Butane	Developmental	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Butane	Fertility	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Isobutane	Fertility	NOAEC	12000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Isobutane	Maternal	NOAEC	10426 ppm	Inhalation	14 days	Rat	OECD 414	negative	
Isobutane	Developmental	NOAEC	10426 ppm	Inhalation	14 dyas	Rat	OECD 414	negative	
Propane	Maternal	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Propane	Developmental	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Propane	Fertility	NOAEC	16000 ppm	Inhalation	6 weeks	Rat	OECD 422	negative	
Ethanol	Developmental	NOAEL	17 %	Oral	5 days	Rat	OECD 414	negative	
Ethanol	Maternal	NOAEL	17 %	Oral	5 days	Rat	OECD 414	negative	
Ethanol	Fertility	NOAEL	20.7 g/kg	Oral	Two	Rat	OECD 416	negative	Generatio
			bw/day		generation				n P
Sodium Benzoate	Maternal	NOAEL	≥175 mg/kg bw/day	Oral	20 days	Rat	OECD 414	negative	
Sodium Benzoate	Developmental	NOAEL	≥175 mg/kg bw/day	Oral	20 days	Rat	OECD 414	negative	
Benzyl acetate	Developmental	NOAEL	>1000 mg/kg bw/day	Oral	10 days	Rat		negative	
Benzyl acetate	Maternal	NOAEL	>1000 mg/kg bw/day	Oral	10 days	Rat		negative	
Sodium nitrite	Fertility	NOAEL	425 mg/kg	Oral	2	Mouse	2-	negative	
			bw/day		generation		generation		
					S		reproducti		
							ve toxicity		
4-Allyl-2-methoxyphenol	Fertility	NOAEL	>700 mg/kg	Oral	2 generation	Rat	OECD 416	negative	
4-Allyl-2-methoxyphenol	Maternal	LOAEL	250 mg/kg	Oral	13 days	Rat	OECD 414	negative	
4-Allyl-2-methoxyphenol	Developmental	NOAEL	500 mg/kg	Oral	13 days	Rat	OECD 414	negative	
(2- methoxymethylethoxy)propanol	Maternal	NOAEL	300 ppm	Inhalation	Two generation	Rat	OECD416	negative	
(2- methoxymethylethoxy)propanol	Developmental	NOEL	300 ppm	Inhalation	13 days	Rabbit	EPA OTS 798.4350	negative	
2-Hydroxy-4- Methoxybenzophenone	Developmental	NOAEL	200 mg/kg bw/day	Oral	14 days	Rat	OECD 414	negative	
2-Hydroxy-4-	Maternal	NOAEL	200 mg/kg	Oral	14 days	Rat	OECD 414	negative	
Methoxybenzophenone			bw/day						
A mixture of branched and linear	Developmental	NOAEL	150 mg/kg	Oral	10 days	Rat	OECD 414	negative	Read-
C7-9 alkyl 3-[3-(2H-benzotriazol-			bw/day					1	across
2-yl)-5-(1,1-dimethylethyl)-4-									
A mixture of branched and linear	Maternal	ΝΟΑΕΙ	1 mg/kg	Oral	10 days	Bat	OFCD 414	negative	Read-
C7-9 alkyl 3-[3-(2H-benzotriazol-	waterna	NOALL	bw/day	Ulai	10 uays	nat	0100 414	negative	across
0. 3 any 3 [3 (21) Senzothazon	1		~		1	1		1	461035

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2-yl)-5-(1,1-dimethylethyl)-4-									
hydroxyphenyl]propionates									
A mixture of branched and linear	Fertility	NOAEL	100 mg/kg	Oral	11 weeks	Rat	OECD 415	negative	Read-
C7-9 alkyl 3-[3-(2H-benzotriazol-			bw/day						across
2-yl)-5-(1,1-dimethylethyl)-4-									
hydroxyphenyl]propionates									
2H-Chromen-2-one	Fertility	NOEC	>0.25 %	Oral	12 days	Rat	OECD 416	negative	
2H-Chromen-2-one	Developmental	NOEC	>0.25 %	Oral	12 days	Rat	OECD 416	negative	
Prop-2-enyl-3-	Developmental	NOAEL	34 mg/kg	Oral	20 days	Rat	OECD 414	Negative	
cyclohexylpropanoate			bw/day						
Prop-2-enyl-3-	Fertility	NOAEL	125 mg/kg	Oral	46 days	Rat	OECD 415	Negative	
cyclohexylpropanoate			bw/day						
Prop-2-enyl-3-	Maternal	LOAEL	34 mg/kg	Oral	20 days	Rat	OECD 414	Negative	
cyclohexylpropanoate			bw/day						

## Specific target organ toxicity

Substance	Exposure	Category	Route	Target organs
No information available.				

#### Aspiration hazard

Substance	Result
4-Isopropenyl-1-methylcyclohexene	Aspiration hazard - category 1

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	Redness and weeping, transient effects only.
Inhalation:	None known.
Skin contact:	Irritation and possible sensitisation.
Ingestion:	None known.

## Potential chronic health effects

Substance	Effect	Result	Exposure	Duration	Species	Method	Organs affected	Comments
Butane	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	None	
Isobutane	NOAEC	16000 ppm	Inhalation	28 days	Rat	OECD 422	None	
Propane	NOAEC	9000 ppm	Inhalation	6 weeks	Rat	OECD 422	None	
Ethanol	LOEL	4 ml/kg	Oral	90 days	Rat	OECD 408	Kidney, Liver	
Sodium Benzoate	NOAEL	1000 mg/kg bw/day	Oral	18 months	Rat	Chronic toxicity	None	
Sodium Benzoate	NOAEL	250 mg/m <sup>3</sup>	Inhalation	4 weeks	Rat	OECD 412	None	
Sodium Benzoate	NOAEL	>2500 mg/kg bw/day	Dermal	3 weeks	Rabbit	EPA OPP 82-2	None	
Benzyl acetate	NOAEL	480 mg/kg bw/day	Oral	90 days	Rat	OECD 408	None	
Sodium nitrite	NOEL	10 mg/kg bw/day	Oral	2 years	Rat	Chronic oral toxicity	heart, lungs	
4-Allyl-2-methoxyphenol	NOAEL	600 mg/kg	Oral	90 days	Rat	OECD 408	None	
4-Isopropenyl-1-methylcyclohexene	NOAEL	600 mg/kg bw/day	Oral	90 days	Rat	OECD 408	None	Nephrotoxicity in male rats considered irrelevant for humans
4-Isopropenyl-1-methylcyclohexene	NOAEL	100 mg/kg bw/day	Oral	90 days	Dog	OECD 409	Kidneys	
4-Isopropenyl-1-methylcyclohexene	NOAEL	500 mg/kg bw/day	Oral	90 days	Mouse	OECD 408	None	
(2-methoxymethylethoxy)propanol	NOAEL	1000 mg/kg bw/day	Oral	28 days	Rat		None	Liver hypertrophy
(2-methoxymethylethoxy)propanol	NOAEL	200 ppm	Inhalation	90 days	Rat	OECD 413	None	
(2-methoxymethylethoxy)propanol	NOEL	>1000 mg/kg bw/day	Dermal	28 days	Rat	OECD 410	None	
2-Hydroxy-4- Methoxybenzophenone	NOAEL	393 mg/kg	Oral	90 days	Rat	OECD 408	Kidneys	
2-Hydroxy-4- Methoxybenzophenone	NOAEL	200 mg/kg	Dermal	90 days	Rat	OECD 411	None	
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2- yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]propionates	NOEL	2 mg/kg bw/day	Oral	28 days	Rat	OECD 407	Liver	Reversible effects
Decanal	NOAEL	1409.7 mg/kg	Oral	90 days	Rat	OECD 408	None	Read-across
2H-Chromen-2-one	NOEL	42 mg/kg bw/day	Oral	104 weeks	Rat	OECD 453	None	
Prop-2-enyl-3- cyclohexylpropanoate	NOEL	>214 mg/kg bw/day	Oral	1 year	Rat	Chronic study	None	

General:

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Carcinogenicity:	No known significant effects or critical hazards.				
Mutagenicity:	No known significant effects or critical hazards.				
Teratogenicity:	No known significant effects or critical hazards.				
Developmental effects:	No known significant effects or critical hazards.				
Fertility effects:	No known significant effects or critical hazards.				
Interactive effects:	Not available.				
Toxicokinetics					
Absorption:	Not available.				
Distribution:	Not available.				
Metabolism:	Not available.				
Elimination:	Not available.				
Other information:	Not available.				

## 12. SECTION 12: Ecological information

This product has not been subjected to ecological testing as an entity; therefore no specific values have been determined. The ecological information available relating to the ingredients and their concentrations enables the evaluation of this preparation.

#### 12.1 Toxicity

Substance	Result	Species	Exposure
			Aquatic
Butane	LC <sub>50</sub>	46.6 mg/l	invertebrates
Butane	ECso	11.89 mg/l	Algae
Butane	LC <sub>50</sub>	147.54 mg/l	Fish
Isobutane	LC <sub>50</sub>	49.9 mg/l	Fish
			Aquatic
Isobutane	LC <sub>50</sub>	46.6 mg/l	invertebrates
Isobutane	EC <sub>50</sub>	11.89 mg/l	Algae
Propane	EC <sub>50</sub>	8.57 mg/l	Algae
Propane	LC <sub>50</sub>	147.54 mg/l	Fish
			Aquatic
Propane	EC <sub>so</sub>	27.14 mg/l	invertebrates
Ethanol	EC <sub>50</sub>	>100 mg/l	Algae
Ethanol	LC₅o	>100 mg/l	Fish
			Aquatic
Ethanol	EC <sub>so</sub>	>100 mg/l	invertebrates
Sodium Benzoate	LC₅o	484 mg/l	Fish
Sodium Benzoate	LC₅o	1400 mg/l	Fish
			Aquatic
Sodium Benzoate		>100 mg/l	invertebrates
Sodium Benzoate	EC <sub>50</sub>	>30.5 mg/l	Algae
			Aquatic
2-tert-Butylcyclohexyl acetate	EC <sub>50</sub>	1/ mg/l	invertebrates
2-tert-Butylcyclohexyl acetate		1.7 mg/l	Fish
2-tert-Butylcyclohexyl acetate	EC <sub>50</sub>	1/ mg/l	Algae
Benzyl acetate	NOEC	52 mg/l	Algae
Dennidenstate	50	17	Aquatic
Benzyl acetate	EC50		Misroorganisms
Benzyl acetate		855 mg/i	VIICTOOIganisms
Benzyl acetate	10	4000 μg/l	FISTI
Selizyi acelale		114 mg/i	Algae
Sodium nitrite	NUEC	100 mg/i	Algae
Codium nitrito	50	15.4 mg/l	Aquatic
Sodium nitrite		15.4 mg/i	rick
Sodium nitrite	NUEC	21 mg/i	FISH
Codium nitrito	NOFC	0.86 mg/l	Aquatic
Sodium nitrite	FC	5.00 mg/l	Microorganisms
Sodium nitrite		0.54 mg/l	Fich
	EC	0.34 mg/l	
4-Aliyi-2-Inethoxyphenol	EC50	23 Hig/i	Aigae
1-Allul-2-methovunhenol	FC	1.05 mg/l	invertebrates
4-Allyl-2-methoxyphenol		24000 ug/l	Fich
4-Kniyi-2-methoxyphenoi	ECso	0.22 mg/l	
4-isopropenyl-1-methylcyclohexene		688 ug/l	Fich
	1050	008 μg/1	Aquatic
4-Isopropenyl-1-methylcyclohexene	FCro	0 307 mg/l	invertebrates
Alsonronanyl_1-methylcyclohexana	FC	209 mg/l	Microorganisms
(2-methovymethylethovy)propagal		>10000 mg/l	Fish
(2-methovymethylethovy)propanol	EC.	960 mg/l	
	L~50	1/3/11 CO	Aigae

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			100461 E
			Aquatic
(2-methoxymethylethoxy)propanol	LC <sub>50</sub>	1919 mg/l	invertebrates
2-Hydroxy-4-Methoxybenzophenone	ECso	>100 mg/l	Microorganisms
			Aquatic
2-Hydroxy-4-Methoxybenzophenone	ECso	1.87 mg/l	invertebrates
2-Hydroxy-4-Methoxybenzophenone	LC <sub>50</sub>	3.8 mg/l	Fish
2-Hydroxy-4-Methoxybenzophenone	EC₅o	0.41 mg/l	Algae
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-			
(1,1-dimethylethyl)-4-hydroxyphenyl]propionates	LC <sub>50</sub>	>9.9 mg/l	Fish
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-			Aquatic
(1,1-dimethylethyl)-4-hydroxyphenyl]propionates	EC₅o	3.2 mg/l	invertebrates
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-			
(1,1-dimethylethyl)-4-hydroxyphenyl]propionates	EC₅o	>2 mg/l	Algae
Decanal	LC <sub>50</sub>	2.1 mg/l	Fish
Decanal	ECso	70 mg/l	Microorganisms
			Aquatic
Decanal	EC <sub>50</sub>	1.17 mg/l	invertebrates
Ethyl butyrate	NOEC	47 mg/l	Algae
2H-Chromen-2-one	EC₅o	1.452 mg/l	Algae
2H-Chromen-2-one	LC <sub>50</sub>	1.324 mg/l	Fish
			Aquatic
2H-Chromen-2-one	ECso	8.012 mg/l	invertebrates
2H-Chromen-2-one	NOEC	100 mg/l	Microorganisms
Prop-2-enyl-3-cyclohexylpropanoate	EC₅o	3 mg/l	Algae
			Aquatic
Prop-2-enyl-3-cyclohexylpropanoate	ECso	3.8 mg/l	invertebrates
Prop-2-enyl-3-cyclohexylpropanoate	LC <sub>50</sub>	0.13 mg/l	Fish

#### 12.2 Persistence and degradability

Substance	Test	Result	Dose	Inoculum
Butane	QSAR		Readily	
Isobutane	QSAR		Readily	
Propane	QSAR		Readily	
	OECD 301B Ready Biodegradability - CO2			
Ethanol	Evolution Test	97 %	Readily	2 - 10 mg/l
Sodium Benzoate	Ready biodegradability	94 %	Readily	50 mg/l
	OECD 301F Ready Biodegradability - Manometric			
2-tert-Butylcyclohexyl acetate	Respirometry Test	43 %	Not readily	-
	OECD 301B Ready Biodegradability - CO2			
Benzyl acetate	Evolution Test	92 %	Readily	-
	EU Method C.4-E (Determination of the "Ready"			
4-Allyl-2-methoxyphenol	Biodegradability - Closed Bottle Test)	82 %	Readily	3 mg/l
	OECD 301D Ready Biodegradability - Closed			
4-Isopropenyl-1-methylcyclohexene	bottle test	80 %	Readily	2 mg/l
	OECD 301E Ready Biodegradability - Modified			
(2-methoxymethylethoxy)propanol	OECD Screening Test	>70 %	Readily	-
	OECD 301F Ready Biodegradability - Manometric			
2-Hydroxy-4-Methoxybenzophenone	Respirometry Test		Readily	100 mg/l
A mixture of branched and linear C7-9 alkyl 3-[3-				
(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-	OECD 301B Ready Biodegradability - CO2			
hydroxyphenyl]propionates	Evolution Test	3 %	Not readily	21.1 mg/l
	OECD 301B Ready Biodegradability - CO2			
Decanal	Evolution Test	82 %	Readily	100 mg/l
Ethyl butyrate	QSAR		Readily	
	OECD 301C Ready Biodegradability - Modified			
2H-Chromen-2-one	MITI Test (I)	100 %	Readily	30 mg/l
	OECD 301D Ready Biodegradability - Closed			
Prop-2-enyl-3-cyclohexylpropanoate	bottle test	86 %	Readily	5 mg/l

## 12.3 Bioaccumulative potential

Substance	LogPow	BCF	Potential
Ethanol	-0.35	<10	Low
Benzyl acetate	1.49	8	Low
4-Allyl-2-methoxyphenol	2.27		Low
4-Isopropenyl-1-methylcyclohexene	4.38	1022	High
(2-methoxymethylethoxy)propanol	-0.35		Low
2-Hydroxy-4-Methoxybenzophenone	3.45	>39 - <160	Low
A mixture of branched and linear C7-9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-	9.2	<3	Low
hydroxyphenyl]propionates			
Decanal	3.8	2.174	Low
2H-Chromen-2-one	1.39		Low
Prop-2-enyl-3-cyclohexylpropanoate	4.28	861	Moderate

## 12.4 Mobility in soil

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Soil/water partition coefficient (K <sub>oc</sub> ): Mobility:	Not available. Not available.	
12.5 Results of PBT and vPvB assessment		
PBT:	Not applicable.	
vPvB:	Not applicable.	
12.6 Other adverse effects:	No known significant effects or critical hazards.	

## **13. SECTION 13: Disposal considerations**

13.1	Waste treatment methods				
	Product:				
	Methods of disposal:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contactor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.			
	Hazardous waste:	The classification of the product may meet the criteria for a hazardous waste.			
	European waste catalogue (EWC)				
	Waste code	Waste designation			
	16 05 04	gases in pressure containers (including halons) containing dangerous substances			
	Packaging: Methods of disposal:	The generation of waste should be avoided or minimised where possible. Waste package			
		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 spilled material

and runoff, and contact with soil, waterways, drains and sewers.

## 14. SECTION 14: Transport information

14.1	ADR/RID	
	UN Number:	1950
	Class:	2
	Shipping Name:	Aerosols, flammable
	Packing Group:	N/A
	Tunnel Code:	D
14.2	IMDG	
	Marine Pollutant:	No
	UN Number:	1950
	Class:	2
	Shipping Name:	Aerosols, flammable
	Packing Group:	N/A
	Storage Category:	А
14.3	ΙΑΤΑ	
	UN Number:	1950
	Class:	2.1
	Shipping Name:	Aerosols, flammable
	Label:	2
	Packing Group:	N/A
	S.P.:	A145, A167, A802
	ERG:	10L
Date of printing:	29/09/2016	

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according to regulation (EC) No. 1907/2006

14.4	Special precautions for user:	Transport within user's premises: a and secure. Ensure that persons tra an accident or a spillage.	lways transport in closed containers that are upright ansporting the product know what to do in the event of
14.5	Transport of bulk according to Annex II of MARP	OL 73/78 and the IBC Code:	Not applicable.

#### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation

#### EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorisation

Annex XIV: Substances of very high concern: None of the components are listed. None of the components are listed.

Annex XVII – Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable

#### **Registration status**

Australian inventory (AICS): China inventory (IECSC): Japan inventory: Philippines inventory (PICCS): United States inventory (TSCA 8b): Europe inventory (EINECS/ELINCS/NLP): Canada inventory (DSL): All components are listed. All components are listed.

#### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

#### 16. Other information

Abbreviations and acronyms:

ADR	-	Accord européen sur le transport des marchadises dangereuses par Route (European agreement concerning the International Carriage of Dangerous
		Goods by Road)
ATE	-	Acute Toxicity Estimate
CAS	-	Chemical Abstracts Service
CLP	_	Classification, Labelling and Packaging Regulation [Regulation (EC) No.
		1272/2008]
DMEL	_	Derived Minimal Effect Level
DNEL	_	Derived No Effect Level
IARC	-	International Agency for Research on Cancer
IATA	-	International Air Transport Association
IMDG	-	International Maritime Code for Dangerous Goods
LOAEL	-	Lowest Observable Adverse Effect Level
LOAEC	-	Lowest Observable Adverse Effect Concentration
NAOEC	-	No Observable Adverse Effect Concentration
NAOEL	-	No Observable Adverse Effect Level
NOEC	-	No Observable Effect Concentration
NOEL	-	No Observable Effect Level
PBT	-	Persistent, Bioaccumulative and Toxic
PNEC	-	Predicted No Effect Concentration
REACH	-	Registration, Authorisation and Restriction of Chemicals Regulation
		[Regulation (EC) No. 1907/2006]
RID	-	Règlement international concernant le transport des marchadises
		dangereuses par chemin de fer (Regulations Concerning the International
		Transport of Dangerous Goods by Rail)

vPvB – Very Persistent and Very Bioaccumulative

#### **Classification Procedure:**

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
H222: Extremely flammable aerosol.	Experimentation
H229: Pressurised container: May burst if heated	Experimentation

#### Full text of hazard statements (EC 1272/2008) referred to in section 3:

Acute Tox. D 3: H311	Acute toxicity, dermal, category 3.
Acute Tox. D 4: H312	Acute toxicity, dermal, category 4.
Acute Tox. I 3: H331	Acute toxicity, inhalation, category 3.
Acute Tox. I 4: H332	Acute toxicity, inhalation, category 4.
Acute Tox. O 3: H301	Acute toxicity, oral, category 3.
Acute Tox. O 4: H302	Acute toxicity, oral, category 4.
Aquatic Acute 1: H400	Hazardous to the aquatic environment, acute, category 1.
Aquatic Chronic 1: H410	Hazardous to the aquatic environment, chronic, category 1
Aquatic Chronic 2: H411	Hazardous to the aquatic environment, chronic, category 2
Aquatic Chronic 3: H412	Hazardous to the aquatic environment, chronic, category 3
Asp. Tox. 1: H304	Aspiration Hazard, category 1.
Eye Irrit. 2: H319	Eye irritation, category 2.
Flam. Gas 1: H220	Flammable gas, category 1.
Flam. Liq. 2: H225	Flammable liquid and vapour, category 2.
Flam. Liq. 3: H226	Flammable liquid and vapour, category 3.
Ox. Sol. 3: H272	Oxidising solid, category 3.
Skin Irrit. 2: H315	Skin irritation, category 2.
Skin Sens. 1: H317	Skin sensitization, category 1.
Skin Sens. 1B: H317	Skin sensitization, category 1B.

#### Full text of classifications (EC 1272/2008) referred to in section 3:

Changes from previous issue:	Section 1 updated – contact details Section 2 updated – pressurised container classification added Section 16 updated – amended classification procedure
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H412:	Harmful to aquatic life with long lasting effects.
H411:	Toxic to aquatic life with long lasting effects.
H410:	Very toxic to aquatic life with long lasting effects.
H400:	Very toxic to aquatic life.
H332:	Harmful if inhaled.
H331:	Toxic if inhaled.
H319:	Causes serious eye irritation.
H317:	May cause an allergic skin reaction.
H315:	Causes skin irritation.
H312:	Harmful in contact with skin.
H311:	Toxic in contact with skin.
H304:	May be fatal if swallowed and enters airways.
H302:	Harmful if swallowed.
H301:	Toxic if swallowed.
H272:	May intensify fire; oxidizer.
H226:	Flammable liquid and vapour.
H225:	Highly flammable liquid and vapour.
H220:	Extremely flammable gas.

The information given in this safety data sheet is based on the present state of knowledge and experiences but no guarantee can be given that the information is complete. It is in the customer's own interest to make sure that the information is sufficient for the purpose which the product shall be used. It is the responsibility of the user to fulfil any requirements according to current legislation.

#### **End of Safety Data Sheet**