

Issue date: 14/10/2015

Issue: 1

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

Product Identifier: Christmas Spiced Room Mist

0731522

1.2 Uses: Home fragrance 1.3 Supplier: Marks and Spencer PO Box 3339

Chester CH99 9QS UK

01342 870900 Telephone: 01342 870900 Emergency telephone:

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.

2.2 Label Elements

Label elements according to EC 1272/2008



Hazard Pictograms: 2.2.1 2.2.2 Signal Word:

Danger Named Substances: None required. 2.2.3

2.2.4 Hazard Statements: H222: Extremely flammable aerosol.

2.2.5 **Precautionary Statements:** P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

> P211: Don not spray on open flame or other ignition source. Pressurised container: Do not pierce or burn, even after use. P251:

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C / 121°F.

2.2.6 Use only as directed.

Supplemental Hazard Statements:

Do not spray near face and eyes.

Do not breathe spray. If swallowed seek medical advice and show the container.

Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Does not contain any materials classified as PBT or vPvB in accordance with Annex XIII of EC 2.3 Other Hazards:

1907/2006.

3. SECTION 3: Composition/Information on Ingredients

Description of the mixture:

Component	CAS- No.	EC-No.	Index No.	RRN	% w/w	Classification (EC 1272/2008)
A mixture of branched and linear C7-9 alkyl	127519-17-9	407-000-3	607-281-00-4	01-2120060379-51	<0.0100	Aquatic Chronic 2: H411
3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates						
4-Methyl-8-	122760-84-3	406-330-5	603-123-00-3	01-0000015588-59	<0.0100	Skin Irrit. 2: H315
methylenetricyclo[3.3.1.1.(3.7)]decan-2-ol						Skin Sens. 1: H317
						Aquatic Chronic 2: H411
Allyl (3-methylbutoxy)acetate	67634-00-8	266-803-5			< 0.0100	Acute Tox. 4: H302
						Skin Irrit. 2: H315
(2-methoxymethylethoxy)propanol	34590-94-8	252-104-2		01-2119450011-60	<0.0100	
2-Methyl-3-phenylpropan-2-yl butyrate	10094-34-5	233-221-8			<0.1000	Aquatic Chronic 2: H411
Sodium nitrite	7632-00-0	231-555-9	007-010-00-4	01-2119471836-27	0.1000	Ox. Sol. 3: H272
						Acute Tox. 3: H301
						Aquatic Acute 1: H400
4-Isopropenyl-1-methylcyclohexene	5989-27-5	227-813-5	601-029-00-7	01-2119529223-47	<0.1000	Flam. Liq. 3: H226
						Asp. Tox. 1: H304
						Skin Irrit. 2: H315
						Skin Sens. 1B: H317
						Aquatic Acute 1: H400

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						15500
						Aquatic Chronic 1: H410
2-Propenyl cyclohexylpropionate	2705-87-5	220-292-5		01-2119976355-27	< 0.0100	Acute Tox. 4: H302
						Acute Tox. 4: H312
						Skin Sens. 1B: H317
						Acute Tox. 4: H332
						Aquatic Chronic 1: H410
Sodium Benzoate	532-32-1	208-534-8		01-2119460683-35	0.4000	Eye Irrit. 2: H319
Benzyl acetate	140-11-4	205-399-7		01-2119638272-42	<0.1000	Aquatic Chronic 3: H412
Decanal	112-31-2	203-957-4		01-2119967771-26	<0.0100	Eye Irrit. 2: H319
2-Hydroxy-4-Methoxybenzophenone	131-57-7	205-031-5		01-2119976330-39	<0.0100	Skin Irrit. 2: H315
						Eye Irrit. 2: H319
						STOT SE 3 RTI: H335
4-Allyl-2-methoxyphenol acetate	93-28-7	202-235-6			<0.1000	Acute Tox. 4: H302
Ethyl butyrate	105-54-4	203-306-4			<0.0100	Flam. Liq. 3: H226
4-Allyl-2-methoxyphenol	97-53-0	202-589-1		01-2119971802-33	<0.1000	Skin Sens. 1B: H317
						Eye Irrit. 2: H319
Ethanol	64-17-5	200-578-6	603-002-00-5	01-2119457610-43	3.5000	Fl. Liq. 2: H225
						Eye Irrit. 2: H319
Isobutane	75-28-5	200-857-2	601-004-00-0	01-2119485395-27	7.2000	Flam. Gas 1: H220
2-tert-Butylcyclohexyl acetate	88-41-5	201-828-7		01-2119970713-33	<0.1000	Aquatic Chronic 2: H411
4,11,11-Trimethyl-8-	87-44-5	201-746-1			<0.1000	Asp. Tox. 1: H304
methylenebicyclo[7.2.0]undec-4-ene						
2H-Chromen-2-one	91-64-5	202-086-7		01-2119949300-45	<0.0100	Acute Tox. 4: H302
						Skin Sens. 1B: H317
						STOT RE 2: H373
1,1'-Oxybenzene	101-84-8	202-981-2		01-2119472545-33	<0.0100	Aquatic Chronic 2: H411
Butane	106-97-8	203-448-7	601-004-00-0	01-2119474691-32	16.2000	Flam. Gas 1: H220
Propane	74-98-6	200-827-9	601-003-00-5	01-2119486944-21	6.6000	Flam. Gas 1: H220

See section 16 for full text of classifications.

4. SECTION 4: First Aid Measures

4.1 Description of first aid measures

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.

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.

Skin contact: Contact with evaporating liquid may cause frostbite or freezing of the skin.

Ingestion: Not considered a likely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Respiratory arrest. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Eye Contact: Can cause damage due to rapid evaporative cooling. Skin Contact: Can cause damage due to rapid evaporative cooling.

Ingestion: Not considered a likely route of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: Apply artificial respiration if breathing has stopped. Get immediate medical attention.

Eye Contact: Flush with water. Get medical attention

Skin Contact: Thaw frosted parts with lukewarm water. Do not rub the affected area. Get medical attention

Ingestion: Not considered a likely route of exposure.

5. SECTION 5: Fire fighting measures

5.1 Extinguishing media: Water spray or fog. Dry powder. Foam. **Do not use carbon dioxide**

5.2 Special hazards: Heat may cause the containers to explode.

5.3 Advice for fire-fighters: 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.

6. SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedure: 6.1

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 accumulation 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).

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 containment and cleaning up:

Provide adequate ventilation. Eliminate sources of ignition.

6.4 Reference to other sections:

See section 8 and 13.

7. SECTION 7: Handling and storage

Assess the risk of a potentially explosive atmosphere and the need for suitable equipment. 7.1 Precautions for safe handling:

Take precautionary measures against static discharges. Keep away from ignition sources. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Use only non-sparking tools. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Observe all regulations and local requirements regarding storage of containers. Do not eat, drink or smoke when using. Store in accordance with local/regional/international regulations. Never use direct flame or

electrical heating devices to raise the pressure of a container.

7.2 Conditions for safe storage

Store in original containers; protect from sources of heat and ignition. Containers should Storage conditions:

not stored in conditions likely to encourage corrosion.

All electrical equipment in the storage area should be compatible with the risk of a Storage premises:

potentially explosive atmosphere.

Incompatible materials: Keep away from combustible material and oxidants.

7.3 Specific end use: Home fragrance.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Substance	WEL-STEL mg/m ³	WEL-STEL ppm	WEL_TWA mg/m ³	WEL-TWA ppm
Butane	600	1450	750	1810
Ethanol			1920	1000
(2-methoxymethylethoxy)propanol			308	50
1,1'-Oxydibenzene			7.1	1

DNELs/DMELs

Substance	Туре	Exposure	Value	Population	Effects
Benzyl acetate	DNEL	Long term inhalation	21.9 mg/m ³	Workers	Systemic
Benzyl acetate	DNEL	Short term inhalation	43.8 mg/m ³	Workers	Systemic
Benzyl acetate	DNEL	Long term dermal	6.25 mg/kg bw/day	Workers	Systemic
Benzyl acetate	DNEL	Short term dermal	12.5 mg/kg bw/day	Workers	Systemic
Benzyl acetate	DNEL	Long term inhalation	5.5 mg/m ³	Consumers	Systemic
Benzyl acetate	DNEL	Short term inhalation	11 mg/m ³	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

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Benzyl acetate	DNEL	Short term	6.25 mg/kg	Consumers	Systemic
		oral	bw/day		
Ethanol	DNEL	Short term	1900	Workers	Local
		inhalation	mg/m ³		
Ethanol	DNEL	Long term	343 mg/kg	Workers	Systemic
		dermal	bw/day		7
Ethanol	DNEL	Long term	950 mg/m ³	Workers	Systemic
Littation	DIVEL	_	930 Hig/III	VVOIKEIS	Systemic
		inhalation	. 3		
Ethanol	DNEL	Short term	950 mg/m ³	Consumers	Local
		inhalation			
Ethanol	DNEL	Long term	206 mg/kg	Consumers	Systemic
		dermal	bw/day		
Ethanol	DNEL	Long term	114 mg/m ³	Consumers	Systemic
Littation	DIVEL	inhalation	114 1118/111	Consumers	Jystellille
			"	_	
Ethanol	DNEL	Long term	87 mg/kg	Consumers	Systemic
		oral	bw/day		
2H-Chromen-2-one	DNEL	Long term	6.78 mg/m ³	Workers	Systemic
		inhalation	J.		•
2H-Chromen-2-one	DNEL	Long term	0.39 mg/kg	Consumers	Systemic
zir diriomen z one		dermal	bw/day	Consumers	Systemic
211 61 2	DNE			6	C
2H-Chromen-2-one	DNEL	Long term	1.69 mg/m ³	Consumers	Systemic
		inhalation			
2H-Chromen-2-one	DNEL	Long term	0.39 mg/kg	Consumers	Systemic
		oral	bw/day		
4-Allyl-2-methoxyphenol	DNEL	Long term	21.2 mg/m ³	Workers	Systemic
,. =ea.ex,pe.e.e.	5.1.22	inhalation			o you come
4 Allyl 2 mathagamhanal	DNE		C malle	Morkors	Customis
4-Allyl-2-methoxyphenol	DNEL	Long term	6 mg/kg	Workers	Systemic
		dermal	bw/day		
4-Allyl-2-methoxyphenol	DNEL	Long term	5.22 mg/m ³	Consumers	Systemic
		inhalation			
4-Allyl-2-methoxyphenol	DNEL	Long term	3 mg/kg	Consumers	Systemic
,, p		dermal	bw/day		- ,
4 Allul 2 methovemberel	DNE			Cansumars	Customia
4-Allyl-2-methoxyphenol	DNEL	Long term	3 mg/kg	Consumers	Systemic
		oral	bw/day		

PNECs

Substance	Compartment Detail	Value	Method Detail
Ethanol	Fresh water	0.96 mg/l	
Ethanol	Marine water	0.79 mg/l	
Ethanol	Sediment	3.6 mg/kg	
Ethanol	Soil	0.63 mg/kg	
2H-Chromen-2-one	Fresh water	19 μg/l	Assessment factors
2H-Chromen-2-one	Marine water	1.9 μg/l	Assessment factors
2H-Chromen-2-one	Intermittent release	14.5 μg/l	Assessment factors
2H-Chromen-2-one	Sediment, fresh water	0.15 mg/kg	
		dwt	
2H-Chromen-2-one	Sediment, marine water	0.015	
		mg/kg dwt	
2H-Chromen-2-one	Soil	0.018	
		mg/kg dwt	
2H-Chromen-2-one	Sewage Treatment Plant	6.4 mg/l	
4-Allyl-2-methoxyphenol	Fresh water	1.13 μg/l	
4-Allyl-2-methoxyphenol	Marine water	0.113 μg/l	
4-Allyl-2-methoxyphenol	Intermittent release	11.3 μg/l	
4-Allyl-2-methoxyphenol	Sediment, fresh water	0.081	
		mg/kg	
4-Allyl-2-methoxyphenol	Sediment, marine water	0.0081	
		mg/kg	
4-Allyl-2-methoxyphenol	Soil	0.0155	
		mg/kg dwt	

8.2 Exposure controls

Precautionary measures: Give adequate ventilation to the premises where the product is stored and/or handled.

Keep self-contained breathing apparatus readily available for emergency use. PPE should be selected based on the task being performed. Conduct a risk assessment for each work

area.

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.

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Protection for hands: Wear working gloves if moving large containers. Guideline: EN 388 Protective gloves

against mechanical risks.

Protection for eyes: Safety eyewear, goggles or face-shield to EN 166 to avoid exposure to liquid splashes.

Guideline: EN 166 Personal eye protection.

Protection for skin: Wear fire/flame resistant/retardant clothing. Guideline: ISO/TR 2801:2007 Clothing for

protection against heat and flame.

9. SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Colourless liquefied gas.
Odour: Spiced citrus odour.
pH: Not determined.
Melting point: Not determined.

Initial boiling point and boiling range: -10°C

Flash point: Not applicable to gasses and gas mixtures. Evaporation rate: Not applicable to gasses and gas mixtures.

Vapour pressure: 2.73 bar at 20°C (as propellant)

Density:

Solubility in water:

Partition co-efficient: n-octanol/water:

Auto ignition temperature:

Viscosity:

Explosive properties:

Oxidising properties:

Not determined.

Not applicable

Not applicable

Not applicable

Not applicable

9.2 Other information Gas/vapour is heavier than air and may accumulate in confined spaces, particularly at or

below ground level.

10. SECTION 10: Stability and reactivity

10.1 Reactivity: None known other than those specified below.

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: Can for a potentially explosive atmosphere in air. May react violently with oxidants.
 10.4 Conditions to avoid: Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking.

10.5 Incompatible materials: Oxidisers.

10.6 Hazardous decomposition products: May form carbon monoxide and unidentified organic compounds through incomplete

combustion.

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

Substance	Result	Species	Dose	Exposure
Butane	LC ₅₀ Inhalation	Rat	658 mg/l	4 hours
2-Hydroxy-4-Methoxybenzophenone	LD ₅₀ Oral	Rat	7400 mg/kg	
2-Hydroxy-4-Methoxybenzophenone	LD ₅₀ Dermal	Rabbit	>16000 mg/kg	
Benzyl acetate	LD ₅₀ Dermal	Rabbit	>5 g/kg	
Benzyl acetate	LD ₅₀ Oral	Rat	2490 mg/kg	
2-Propenyl cyclohexylpropionate	LD ₅₀ Dermal	Rabbit	1600 mg/kg	
2-Propenyl cyclohexylpropionate	LD ₅₀ Oral	Rat	585 mg/kg	
(2-methoxymethylethoxy)propanol	LC ₅₀ Inhalation	Rat	55 - 60 mg/l	4 hours
	Vapour			
(2-methoxymethylethoxy)propanol	LD ₅₀ Dermal	Rabbit	13000 - 14000	
			mg/kg	
(2-methoxymethylethoxy)propanol	LD ₅₀ Dermal	Rat	9500 mg/kg	
(2-methoxymethylethoxy)propanol	LD ₅₀ Oral	Rat	5135 mg/kg	
Sodium benzoate	LD ₅₀ Oral	Rat	>2000 mg/kg	
Sodium benzoate	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	
Ethanol	LD ₅₀ Oral	Rat	>2000 mg/kg	
Ethanol	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	

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Ethanol	LC ₅₀ Inhalation	Mouse	>20 mg/l	4 hours
	Vapour			
Isobutane	LC ₅₀ Inhalation	Rat	570000 ppm	15 minutes
Sodium nitrite	LD ₅₀ Oral	Rat	157.9 mg/kg	
Sodium nitrite	LD ₅₀ Oral	Mouse	175 mg/kg	
2-tert-Butylcyclohexyl acetate	LD ₅₀ Dermal	Rabbit	>5000 mg/kg	
2-tert-Butylcyclohexyl acetate	LD ₅₀ Oral	Rat	4600 mg/kg	
2H-Chromen-2-one	LD ₅₀ Oral	Rat	293 mg/kg	
4-Allyl-2-methoxyphenol	LD ₅₀ Oral	Guinea Pig	2130 mg/kg	
4-Allyl-2-methoxyphenol	LD ₅₀ Oral	Mouse	3 g/kg	
4-Allyl-2-methoxyphenol	LD ₅₀ Oral	Rat	2680 mg/kg	

Acute toxicity estimates

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

Irritation/Corrosion

Substance	Result	Species	Score	Exposure	Observation
(2-methoxymethylethoxy)propanol	Eyes - Mild irritant	Human		8 mg	
(2-methoxymethylethoxy)propanol	Eyes - Mild irritant	Rabbit		24 hours	
				500 mg	
(2-methoxymethylethoxy)propanol	Skin - Mild irritant	Rabbit		500 mg	
Sodium nitrite	Eyes - Irritant	Rabbit		24 hours	

Sensitization

Substance	Route of exposure	Species	Result
Ethanol	Skin	Guinea Pig	Not sensitizing
2-Hydroxy-4-Methoxybenzophenone	Skin	Guinea Pig	Not sensitizing

Germ cell mutagenicity

Substance	Test	Experiment	Result
2-Hydroxy-4-Methoxybenzophenone	OECD 471 Bacterial reverse mutation test	In vitro	Negative
		Bacteria	

Carcinogenicity

Substance	Where listed	Group	Comments
Sodium nitrite	IARC	2A	Probably carcinogenic to humans

Reproductive toxicity

Substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
No data available						

Specific target organ toxicity

Substance	Exposure	Category	Route	Target organs
(2-methoxymethylethoxy)propanol	Repeated	2	Oral	Not determined
Ethanol	Repeated	N/A	Oral	Not determined

Aspiration hazard

Substance	Result
No data available	

Potential chronic health effects

Substance	Result	Species	Dose	Exposure
Isobutane	Sub-acute NOAEL Inhalation	Rat	21394 mg/m ³	

General:

Carcinogenicity: No known significant effects or critical hazards.

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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
2-Hydroxy-4-Methoxybenzophenone	Acute LC ₅₀ 20.4 mg/l	Fish	96 hours
2-Hydroxy-4-Methoxybenzophenone	Acute EC ₅₀ 12.9 mg/l	Daphnia	48 hours
2-Hydroxy-4-Methoxybenzophenone	Acute EC ₅₀ 1.4 mg/l	Algae	72 hours
2-Hydroxy-4-Methoxybenzophenone	Acute EC ₅₀ >10000 mg/l	Micro-organism	30 minutes
Benzyl acetate	Acute EC ₅₀ 17 mg/l	Daphnia	48 hours
Benzyl acetate	Acute EC ₅₀ 855 mg/l	Micro-organsim	3 hours
Benzyl acetate	Acute IC ₅₀ 114 mg/l	Algae	72 hours
Benzyl acetate	Acute LC ₅₀ 4000 μg/l Fresh water	Fish - Oryzias latipes - Juvenile	96 hours
Benzyl acetate	Chronic NOEC 52 mg/l	Algae	72 hours
2-Propenyl cyclohexylpropionate	Acute EC ₅₀ 3.8 mg/l	Daphnia	48 hours
2-Propenyl cyclohexylpropionate	Acute LC ₅₀ 0.13 mg/l	Fish	96 hours
(2-methoxymethylethoxy)propanol	Acute EC₅₀ 969 mg/I	Algae - Scenedesmus subspicatus	96 hours
(2-methoxymethylethoxy)propanol	Acute LC ₅₀ 1919 mg/l	Daphnia	48 hours
(2-methoxymethylethoxy)propanol	Acute LC ₅₀ >10000 mg/l	Fish - Pimephales promelas	96 hours
Sodium benzoate	Acute LC ₅₀ >100 mg/l	Fish	96 hours
Sodium benzoate	Acute LC ₅₀ >100 mg/l	Daphnia	96 hours
Ethanol	Acute LC ₅₀ >100 mg/l	Fish - Leuciscus idus	48 hours
Ethanol	Acute EC ₅₀ >100 mg/l	Daphnia - Daphnia magna	48 hours
Ethanol	Acute EC ₅₀ >100 mg/l	Algae - Selenastrum capricornutum	48 hours
Propane	Acute LC ₅₀ 49.9 mg/l	Fish	96 hours
Propane	Acute EC ₅₀ 27.1 mg/l	Daphnia - Daphnia magna	48 hours
Propane	Acute EC ₅₀ 11.9 mg/l	Algae	72 hours
Isobutane	Acute LC ₅₀ 27.98 mg/l	Fish	96 hours
Sodium nitrite	Acute LC ₅₀ 0.94 - 1.92 mg/l	Fish - Oncorhynchus mykiss	96 hours
Sodium nitrite	Acute EC ₅₀ 12.5 mg/l	Daphnia - Daphnia magna	48 hours
Sodium nitrite	Acute NOEC 100mg/I	Algae - Desmodesmus subspicatus	72 hours
2-tert-Butylcyclohexyl acetate	Acute EC ₅₀ 17 mg/l	Aquatic plants	72 hours
2-tert-Butylcyclohexyl acetate	Acute EC ₅₀ 17 mg/l	Daphnia	48 hours
2-tert-Butylcyclohexyl acetate	Acute LC ₅₀ 1.7 mg/l	Fish	96 hours
2H-Chromen-2-one	Acute EC ₅₀ 1.45 mg/l	Algae	72 hours
2H-Chromen-2-one	Acute LC ₅₀ 2.94 mg/l	Fish	96 hours
2H-Chromen-2-one	Acute LC ₅₀ 13500 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
4-Allyl-2-methoxyphenol	Acute EC ₅₀ 23 mg/l	Aquatic plants	72 hours
4-Allyl-2-methoxyphenol	Acute EC ₅₀ 1.05 mg/l	Daphnia	48 hours
4-Allyl-2-methoxyphenol	Acute LC ₅₀ 24000 μg/l Fresh water	Fish - Pimephales promelas - Juvenile	96 hours

12.2 Persistence and degradability

Substance	Test	Result	Dose	Inoculum
Benzyl acetate	OECD 301B Ready	92% - Readily - 28 days	-	-
	Biodegradability -			
	CO2 Evolution			

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	Test			
2-Propenyl cyclohexylpropionate	OECD 301D Ready	86% - Readily - 28 days	-	-
	Biodegradability -			
	Closed bottle test			
(2-methoxymethylethoxy)propanol	OECD 301E Ready	>70% - Readily - 28 days	-	-
	Biodegradability -			
	Modified OECD			
	Screening Test			
2H-Chromen-2-one	OECD 301F Ready	90% - Readily - 28 days	-	-
	Biodegradability -			
	Manometric			
	Respirometry Test			
4-Allyl-2-methoxyphenol	OECD 301F Ready	97% - Readily - 28 days	-	-
	Biodegradability -			
	Manometric			
	Respirometry Test			

12.3 Bioaccumulative potential

Substance	LogPow	BCF	Potential
Benzyl acetate	1.49	8	low
2-Propenyl cyclohexylpropionate	4.28	861	high
(2-methoxymethylethoxy)propanol	-0.35	-	low
2H-Chromen-2-one	1.39	-	low
4-Allyl-2-methoxyphenol	2.27	-	low
Ethanol	-0.35	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available. Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects: Contains greenhouse gases not covered by 842/2006/EC. Contains greenhouse gases.

When discharged in large quantities may contribute to the greenhouse effect.

Component information

Butane Global warming potential: 4 Isobutane Global warming potential: 3 Propane Global warming potential: 3

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:

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Methods of disposal: The generation of waste should be avoided or minimised where possible. Waste packaging

should be recycled. Incineration or landfill should only be considered when recycling is not

feasible.

Special precautions: Do not discharge into areas where its accumulation could be dangerous.

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:

UN Number:

1950
Class:

2
Shipping Name:
Aerosols
Packing Group:
N/A
Storage Category:

Ao

14.3 IATA

UN Number: 1950 Class: 2.1

Shipping Name: Aerosols, flammable

Label:

Packing Group: N/A

S.P.: A145, A167, A802

RG: 1

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright

and secure. Ensure that persons transporting the product know what to do in the event of

an accident or a spillage.

14.5 Transport of bulk according to Annex II of MARPOL 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: None of the components are listed. Substances of very high concern: 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.

15.2 Chemical safety assessment

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

16. Other information

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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 (EC) No.

1272/2008]

DMEL -**Derived Minimal Effect Level** DNEL Derived No Effect Level

International Air Transport Association IATA

IMDG International Maritime Code for Dangerous Goods

N/A Not applicable

NAOEL -No Observable Adverse Effect Level PRT Persistent, Bioaccumulative and Toxic **PNEC** Predicted No Effect Concentration PPF Personal Protective Equipment

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:

H302:

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
H222: Extremely flammable aerosol	On basis of test data

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

H220: Extremely flammable gas. H226: Flammable liquid and vapour. May intensify fire; oxidizer. H272: Toxic if swallowed. H301:

Harmful if swallowed. May be fatal if swallowed and enters airways. H304.

Harmful in contact with skin. H312: H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

Harmful if inhaled. H332:

May cause respiratory irritation. H335:

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. H412:

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

Acute Tox. 3: H301 Acute toxicity, oral, category 3. Acute toxicity, oral, category 4. Acute Tox. 4: H302 Acute Tox. 4: H312 Acute toxicity, dermal, category 4. Acute Tox. 4: H332 Acute toxicity, inhalation, 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.

Eye Irrit. 2: H319 Eye irritation, category 2. Flam. Gas 1: H220 Flammable gas, category 1.

Flammable liquid and vapour, category 3. Flam. Liq. 3: H226

Ox. Sol. 3: H272 Oxidising solid, category 3. Skin irritation, category 2. Skin Irrit. 2: H315: Skin sensitizer, category 1. Skin Sens. 1: H317 Skin sensitizer, category 1B. Skin Sens. 1B: H317

STOT RE 2: Specific target organ toxicity, repeated exposure, category 2.

STOT SE 3 RTI: H335 Specific target organ toxicity, single exposure, category 3, respiratory tract irritation.

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Changes from previous issue: New

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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

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