

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Revision Date 24-Aug-2024 Revision Number 1 Issuing Date 24-Aug-2024

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

#### 1.1. Product identifier

**Product Name** AMSOIL Interior Detailer - Light Lemon

Product Code(s) **IDL** 

**Synonyms** None

Pure substance/mixture Mixture

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

Recommended use Interior detail spray cleaner

Uses advised against Use only for intended applications

## 1.3. Details of the supplier of the safety data sheet

Manufacturer

AMSOIL INC. One AMSOIL Center Superior, WI 54880, USA

T: +1 715-392-7101

#### For further information, please contact

E-mail address compliance@amsoil.com

## 1.4. Emergency telephone number

**Emergency telephone** CHEMTREC International: +1 703-741-5970

Emergency telephone - §45 - (EC)1272/2008 Europe 112

## SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Chronic aquatic toxicity Category 3 - (H412)

## 2.2. Label elements

## **Hazard statements**

H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment.

P501 - Dispose of contents/ container to an approved waste disposal plant.

#### 2.3. Other hazards

Other hazards Harmful to aquatic life.

PBT & vPvB None known

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

## 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	Weight-%	REACH	EC No (EU	Classification	Specific	M-Factor	M-Factor	Notes
		registration	Index No)	according to	concentration		(long-ter	
		number		Regulation (EC) No.	limit (SCL)		m)	
				1272/2008 [CLP]				
Quaternium 80	<5.5	No data	-	Aquatic Acute 1	-	-	-	-
134737-05-6		available		(H400)				
				Aquatic Chronic 1				
				(H410)				
Propylene glycol	<0.1	No data	200-338-0	[C]	-	-	-	-
57-55-6		available						
Orange oil	<0.1	No data	232-433-8	No data available	-	-	-	-
8028-48-6		available						
2-butoxyethanol	<0.1	No data	203-905-0	Acute Tox. 4 (H302)	-	-	-	-
111-76-2		available	(603-014-00-0)					
				Eye Irrit. 2 (H319)				
				Acute Tox. 3 (H331)				
Diethanolamine	<0.001	No data	203-868-0	Acute Tox. 4 (H302)	-	-	-	-
111-42-2		available	(603-071-00-1)					
				Eye Dam. 1 (H318)				
				STOT RE 2 (H373)				
1,4-dioxane	<0.001	No data	204-661-8	Flam. Liq. 2 (H225)	-	-	-	D
123-91-1		available	(603-024-00-5)					
				STOT SE 3 (H335)				
				Carc. 1B (H350)				
				(EUH019)				
				(EUH066)				

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

(M)SDS Number UL-ASL-513

<sup>[</sup>C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

Note D - Certain substances which are susceptible to spontaneous polymerization or decomposition are generally placed on the
market in a stabilized form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However,
such substances are sometimes placed on the market in a non-stabilized form. In this case, the supplier who places such a
substance on the market must state on the label the name of the substance followed by the words "non-stabilized".

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapour - mg/L	hour - gas - ppm
			mg/L		
Propylene glycol	20000	20800	No data available	No data available	No data available
57-55-6					
Orange oil	No data available	5000	No data available	No data available	No data available
8028-48-6					
2-butoxyethanol	1200 <sup>+</sup>	435	No data available	3+	No data available
111-76-2	470			2.1749	
				2.3489	
Diethanolamine	780	13034.07	No data available	No data available	No data available
111-42-2					
1,4-dioxane	5170	7600	23	No data available	No data available
123-91-1					

<sup>+</sup> This value is the harmonised acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonised ATE value must be used when calculating the acute toxicity estimate (ATEmix) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice Get medical attention immediately if symptoms occur. Show this safety data sheet to the

doctor in attendance.

**Inhalation** Remove person to fresh air and keep comfortable for breathing.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water. Take off contaminated clothing. Get medical attention if

irritation develops and persists.

**Ingestion** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious

person.

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

Symptoms May cause temporary eye irritation. May cause gastrointestinal discomfort if consumed in

large amounts. Repeated or prolonged skin contact may cause skin irritation and/or

dermatitis and sensitisation in susceptible persons.

Effects of Exposure None.

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

Note to doctors Treat symptomatically.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Use extinguishing Suitable Extinguishing Media

measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

## 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Containers can burst or explode when heated, due to excessive pressure build-up. Thermal

decomposition can lead to release of irritating gases and vapours.

No information available. **Hazardous combustion products** 

5.3. Advice for firefighters

Specific/special fire-fighting

measures

Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter

protection, and actions to control or extinguish the fire.

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. See section 8

for more information.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

## 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, Methods for cleaning up

> diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly. After

cleaning, flush away traces with water.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections For additional information see: Section 8: Exposure controls/personal protection;

Section 12: Ecological information; Section 13: Disposal considerations.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

used product. Do not eat, drink or smoke when using this product. Take off contaminated

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clothing and wash it before reuse. Wash thoroughly after handling.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling

the product.

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

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Do not reuse empty

containers. Store away from incompatible materials. See section 10 for more information.

Protect from physical damage.

Storage class (TRGS 510) LGK 10.

7.3. Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Propylene glycol	-	-	-	-	TWA: 150 ppm
57-55-6					TWA: 474 mg/m <sup>3</sup>
					TWA: 10 mg/m <sup>3</sup>
2-butoxyethanol	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm
111-76-2	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>
	STEL: 50 ppm	STEL 40 ppm	STEL: 50 ppm	STEL: 50 ppm	STEL: 50 ppm
	STEL: 246 mg/m <sup>3</sup>	STEL 200 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>
	Sk*	Sk*	Sk*	Sk*	Sk*
Diethanolamine	-	TWA: 0.46 ppm	TWA: 0.2 ppm	TWA: 10 mg/m <sup>3</sup>	TWA: 3 ppm
111-42-2		TWA: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>		TWA: 15 mg/m <sup>3</sup>
		STEL 0.92 ppm	Sk*		Sk*
		STEL 4 mg/m <sup>3</sup>			
		Sk*			
		Sh+			
1,4-dioxane	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm
123-91-1	TWA: 73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>
		STEL 40 ppm	Sk*		
		STEL 146 mg/m <sup>3</sup> Sk*			
Ol	0		D	F-4i-	Find and
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
2-butoxyethanol	TWA: 20 ppm	TWA: 100 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm
111-76-2	TWA: 98 mg/m <sup>3</sup>	Sk*	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>
	STEL: 50 ppm	Ceiling: 200 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	STEL: 50 ppm	STEL: 50 ppm
	STEL: 246 mg/m <sup>3</sup> Sk*		STEL: 50 ppm Sk*	STEL: 246 mg/m <sup>3</sup> Sk*	STEL: 250 mg/m <sup>3</sup> Sk*
	SK"		SK"	SK" S+	SK"
Diethanolamine	_	TWA: 5 mg/m <sup>3</sup>	TWA: 0.46 ppm	TWA: 3 ppm	TWA: 0.46 ppm
111-42-2		Ceiling: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
122			STEL: 0.92 ppm	STEL: 6 ppm	Sk*
			STEL: 4 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>	
			Sk*	Sk*	

1,4-dioxane 123-91-1	TWA: 73 mg/m <sup>3</sup> TWA: 20 ppm	TWA: 70 mg/m <sup>3</sup> Sk* Ceiling: 140 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 36 mg/m <sup>3</sup> STEL: 20 ppm STEL: 72 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 36 mg/m <sup>3</sup> STEL: 40 ppm STEL: 150 mg/m <sup>3</sup> SK*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
2-butoxyethanol 111-76-2	TWA: 10 ppm TWA: 49 mg/m <sup>3</sup> STEL: 50 ppm STEL: 246 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 49 mg/m³ Sk*	TWA: 10 ppm TWA: 49 mg/m <sup>3</sup> Peak: 20 ppm Peak: 98 mg/m <sup>3</sup> Sk*	TWA: 25 ppm TWA: 120 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 98 mg/m <sup>3</sup> STEL: 50 ppm STEL: 246 mg/m <sup>3</sup> Sk*
Diethanolamine 111-42-2	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup>	TWA: 0.11 ppm TWA: 0.5 mg/m <sup>3</sup> Sk* Sh+	TWA: 1 mg/m <sup>3</sup> Peak: 1 mg/m <sup>3</sup> Sk* skin sensitizer	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup>	-
1,4-dioxane 123-91-1	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> STEL: 40 ppm STEL: 140 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 73 mg/m³ Sk*	TWA: 10 ppm TWA: 37 mg/m³ Peak: 20 ppm Peak: 74 mg/m³ Sk*	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> Sk*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Propylene glycol 57-55-6	TWA: 10 mg/m <sup>3</sup> TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> STEL: 1410 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 450 ppm	_	<u>-</u>	TWA: 7 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup>
2-butoxyethanol 111-76-2	TWA: 20 ppm TWA: 98 mg/m³ STEL: 50 ppm STEL: 246 mg/m³ Sk*	TWA: 20 ppm TWA: 98 mg/m <sup>3</sup> STEL: 50 ppm STEL: 246 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 98 mg/m <sup>3</sup> STEL: 50 ppm STEL: 246 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 20 ppm STEL: 100 mg/m <sup>3</sup> Sk*
Diethanolamine 111-42-2	TWA: 0.2 ppm TWA: 1 mg/m <sup>3</sup> STEL: 0.6 ppm STEL: 3 mg/m <sup>3</sup> Sk*	-	TWA: 1 mg/m <sup>3</sup> Sk*	-	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup> STEL: 6 ppm STEL: 30 mg/m <sup>3</sup> Sk*
1,4-dioxane 123-91-1	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> STEL: 60 ppm STEL: 219 mg/m <sup>3</sup> Sk*	Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> Sk*	TWA: 5.5 ppm TWA: 20 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 35 mg/m <sup>3</sup> STEL: 25 ppm STEL: 90 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Propylene glycol 57-55-6	-	-	-	TWA: 25 ppm TWA: 79 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 118.5 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup>
2-butoxyethanol 111-76-2	TWA: 20 ppm TWA: 98 mg/m <sup>3</sup> STEL: 50 ppm STEL: 246 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 98 mg/m <sup>3</sup> STEL: 50 ppm STEL: 246 mg/m <sup>3</sup> Sk*	TWA: 20.4 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 246 mg/m³ Sk*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 20 ppm STEL: 75 mg/m³ Sk*	TWA: 98 mg/m <sup>3</sup> STEL: 200 mg/m <sup>3</sup> Sk*
Diethanolamine 111-42-2	- TMA 72	- TAIA 70 m m/m 3	- TMA . F. F. many	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup> STEL: 6 ppm STEL: 22.5 mg/m <sup>3</sup>	TWA: 9 mg/m <sup>3</sup> Sk*
1,4-dioxane 123-91-1	TWA: 73 mg/m <sup>3</sup> TWA: 20 ppm	TWA: 73 mg/m <sup>3</sup> TWA: 20 ppm	TWA: 5.5 ppm TWA: 20 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 18 mg/m <sup>3</sup> STEL: 10 ppm STEL: 36 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>

						Sk*	
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
2-butoxyethanol	TV	/A: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA:	20 ppm	TWA: 20 ppm
111-76-2		4: 98 mg/m³	TWA: 98 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>		98 mg/m³	TWA: 98 mg/m <sup>3</sup>
		EL: 50 ppm	STEL: 50 ppm	Sk*	1	: 50 ppm	STEL: 50 ppm
	STEI	_: 246 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	Ceiling: 246 mg/m <sup>3</sup>	l .	246 mg/m <sup>3</sup>	STEL: 245 mg/m <sup>3</sup>
5:		Sk*	Sk*			Sk*	Sk*
Diethanolamine 111-42-2	1 ۷۷	'A: 1 mg/m³ Sk*	-	-		0.5 mg/m <sup>3</sup>	TWA: 0.2 ppm
111-42-2		SK"				0.11 ppm 0.11 ppm	TWA: 1 mg/m <sup>3</sup> Sk*
						0.11 ppm 0.5 mg/m <sup>3</sup>	SK
						Sk*	
1,4-dioxane	ΤV	/A: 20 ppm	TWA: 20 ppm	TWA: 20 ppm		20 ppm	TWA: 20 ppm
123-91-1	TW	A: 73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>		73 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup>
		Sk*	Sk*	Ceiling: 146 mg/m <sup>3</sup>	1	146 mg/m <sup>3</sup>	Sk*
						: 40 ppm	
OI : 1						Sk*	
Chemical name		Si	weden	Switzerland		United Kingdom	
Propylene glycol			-	-			VA: 150 ppm
57-55-6							A: 474 mg/m <sup>3</sup> /A: 10 mg/m <sup>3</sup>
							EL: 450 ppm
							L: 1422 mg/m <sup>3</sup>
							EL: 30 mg/m <sup>3</sup>
2-butoxyethanol		NGV	: 10 ppm	TWA: 10 ppm			NA: 25 ppm
111-76-2			50 mg/m <sup>3</sup>	TWA: 49 mg/m			A: 123 mg/m <sup>3</sup>
			KGV: 50 ppm	STEL: 20 ppm		ST	TEL: 50 ppm
			GV: 246 mg/m <sup>3</sup>	STEL: 98 mg/m	1 <sup>3</sup>	STE	L: 246 mg/m <sup>3</sup>
			Sk*	Sk*			Sk*
Diethanolamine			/: 3 ppm	TWA: 1 mg/m <sup>3</sup>			-
111-42-2			15 mg/m <sup>3</sup>	STEL: 1 mg/m	3		
			le KGV: 6 ppm	Sk* S+			
			KGV: 30 mg/m <sup>3</sup> Sk*	5+			
1,4-dioxane			: 10 ppm	TWA: 20 ppm		Τ\	NA: 20 ppm
123-91-1		NGV:	35 mg/m <sup>3</sup>	TWA: 72 mg/m		TW	/A: 73 mg/m <sup>3</sup>
		Vägledande	e KGV: 25 ppm	STEL: 40 ppm	1	ST	TEL: 60 ppm
		Vägledande	KGV: 90 mg/m <sup>3</sup>	STEL: 144 mg/r	n <sup>3</sup>	STE	L: 219 mg/m <sup>3</sup>
				Sk*			Sk*

# Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
2-butoxyethanol	-	-	-	-	200 mg/g Creatinine
111-76-2					(urine - Butoxyacetic
					acid end of shift at
					end of workweek)
					0.17 mmol/mmol
					Creatinine (urine -
					Butoxyacetic acid
					end of shift at end of
					workweek)
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
2-butoxyethanol	-	-	-		150 mg/g Creatinine
111-76-2				(urine - Butoxyacetic	(urine - Butoxyacetic
				acid (after	acid (after
				hydrolysis) for	hydrolysis) for
				long-term	long-term

1,4-dioxane					several shift 150 mg/g Creat (urine - Butoxya acid (after hydrolysis) en shift) 150 mg/g Creat - BAT (for long- exposures: at end of the shift several shifts)	after s) after several shift after several shifts) sinine 150 mg/g Creatinine acetic (urine - Butoxyacetic acid (after hydrolysis) end of shift) sinine term the after
123-91-1	-	-			(urine - 2-Hydroxyethox tic acid end of: 200 mg/g Creat - BAT (end exposure or er shift) urine	(urine - cyace 2-Hydroxyethoxyace shift) tic acid end of shift) tinine of and of
Chemical name	Hungary	Ireland		Italy	/ MDLPS	Italy AIDII
2-butoxyethanol 111-76-2	-	200 mg/g Cre (urine - end c			-	200 mg/g Creatinine - urine (Butoxyacetic acid (with hydrolysis)) - end of shift
Chemical name	Slovenia	Spain		Sw	itzerland	United Kingdom
2-butoxyethanol 111-76-2	(after hydrolysis)) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	200 mg/g Cre. (urine - Butoxyad (with hydrolysis shift)	cetic acid	(urine - 2 acid (after of shift, ar shifts (i exp	2-Butoxyacetic hydrolysis) end nd after several for long-term posures))	240 mmol/mol creatinine - urine (Butoxyacetic acid)
1,4-dioxane 123-91-1	400 mg/g Creatinine - urine (2-Hydroxyethoxyacetic acid) - at the end of the work shift	-		2-Hydrox acid e 378 µmol/i ( 2-Hydrox	n/g creatinine urine - y-ethoxyacetic end of shift) mmol creatinine urine - y-ethoxyacetic end of shift)	-

## Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Propylene glycol 57-55-6	-	-	168 mg/m³ [4] [6] 10 mg/m³ [5] [6]
2-butoxyethanol 111-76-2	-	125 mg/kg bw/day [4] [6] 89 mg/kg bw/day [4] [7]	98 mg/m³ [4] [6] 1091 mg/m³ [4] [7] 246 mg/m³ [5] [7]
Diethanolamine 111-42-2	-	0.13 mg/kg bw/day [4] [6]	0.75 mg/m³ [4] [6] 0.5 mg/m³ [5] [6]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.

## [7] Short term.

## Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Propylene glycol	-	-	50 mg/m³ [4] [6]
57-55-6			10 mg/m³ [5] [6]
2-butoxyethanol	6.3 mg/kg bw/day [4] [6]	89 mg/kg bw/day [4] [6]	59 mg/m³ [4] [6]
111-76-2	26.7 mg/kg bw/day [4] [7]	89 mg/kg bw/day [4] [7]	426 mg/m³ [4] [7]
			147 mg/m³ [5] [7]
Diethanolamine	0.06 mg/kg bw/day [4] [6]	-	0.125 mg/m³ [4] [6]
111-42-2			0.125 mg/m <sup>3</sup> [5] [6]

**Notes** 

[4] Systemic health effects.[5] Local health effects.[6] Long term.

[7] Short term.

## **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Propylene glycol 57-55-6	260 mg/L	183 mg/L	26 mg/L	-	-
2-butoxyethanol 111-76-2	8.8 mg/L	26.4 mg/L	0.88 mg/L	-	-
Diethanolamine 111-42-2	0.021 mg/L	0.095 mg/L	0.002 mg/L	•	•

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Propylene glycol 57-55-6	572 mg/kg sediment dw	57.2 mg/kg sediment dw	20000 mg/L	50 mg/kg soil dw	-
2-butoxyethanol 111-76-2	34.6 mg/kg sediment dw	3.46 mg/kg sediment dw	463 mg/L	2.33 mg/kg soil dw	0.02 g/kg food
Diethanolamine 111-42-2	0.092 mg/kg sediment dw	0.0092 mg/kg sediment dw	100 mg/L	1.63 mg/kg soil dw	1.04 mg/kg food

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection If there is a risk of contact: Wear safety glasses with side shields (or goggles).

Hand protection If there is a risk of contact: Wear suitable gloves. Ensure that the breakthrough time of the

glove material is not exceeded. Refer to glove supplier for information on breakthrough time

for specific gloves.

Skin and body protection If there is a risk of contact: Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling

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the product.

**Environmental exposure controls** Avoid release to the environment. Local authorities should be advised if significant spillages

cannot be contained.

## SECTION 9: Physical and chemical properties

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

**Appearance** 

Physical state Liquid

Colour Clear / colourless to pale yellow

Odour Citrus

**Odour threshold** No information available

Property Values Remarks • Method

Melting point / freezing point 0 °C 100 °C Initial boiling point and boiling

range

**Flammability** No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 100

**Autoignition temperature** No data available **Decomposition temperature** No data available

pН 5.5 - 6.5

pH (as aqueous solution) No data available Kinematic viscosity No data available

**Dynamic viscosity** No data available

Water solubility Miscible in water

Solubility(ies) No data available

**Partition coefficient** No data available

Vapour pressure 32 hPa @ 25 °C

Relative density 1 @ 25 °C

**Bulk density** No data available **Liquid Density** No data available Relative vapour density No data available

**Particle characteristics** 

**Particle Size** No data available **Particle Size Distribution** No data available

## 9.2. Other information

#### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** None under normal use conditions.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products No information available.

## SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Information on likely routes of exposure

Product Information .

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

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

**Symptoms** May cause temporary eye irritation. Repeated or prolonged skin contact may cause skin

irritation and/or dermatitis and sensitisation in susceptible persons.

**Acute toxicity** 

Numerical measures of toxicity

Based on available data, the classification criteria are not met

(M)SDS Number UL-ASL-513

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol 57-55-6	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Orange oil 8028-48-6	-	> 5000 mg/kg (Rabbit)	-
2-butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 435 mg/kg (Rabbit)	= 450 ppm (Rat)4 h = 486 ppm (Rat)4 h
Diethanolamine 111-42-2	= 780 mg/kg (Rat)	= 11.9 mL/kg (Rabbit)	> 3.35 mg/L (Rat)4 h
1,4-dioxane 123-91-1	= 5170 mg/kg (Rat)	= 7600 mg/kg (Rabbit)	= 46 mg/L (Rat)2 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ch	nemical name	European Union
	1,4-dioxane	Carc. 1B

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure**Based on available data, the classification criteria are not met.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

**Aspiration hazard** Due to the viscosity, this product does not present an aspiration hazard.

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met

## 11.2.2. Other information

Other adverse effects No information available.

## SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Propylene glycol 57-55-6	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	-	EC50: >1000mg/L (48h, Daphnia magna)
2-butoxyethanol 111-76-2	-	LC50: =1490mg/L (96h, Lepomis macrochirus) LC50: =2950mg/L (96h, Lepomis macrochirus)	-	EC50: >1000mg/L (48h, Daphnia magna)
Diethanolamine 111-42-2	EC50: =7.8mg/L (72h, Desmodesmus subspicatus) EC50: 2.1 - 2.3mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 4460 - 4980mg/L (96h, Pimephales promelas) LC50: 1200 - 1580mg/L (96h, Pimephales promelas) LC50: 600 - 1000mg/L (96h, Lepomis macrochirus)	-	EC50: =55mg/L (48h, Daphnia magna)
1,4-dioxane 123-91-1	-	LC50: >10000mg/L (96h, Lepomis macrochirus) LC50: =9850mg/L (96h, Pimephales promelas) LC50: 10306 - 14742mg/L (96h, Pimephales promelas)	-	EC50: =163mg/L (48h, water flea)

## 12.2. Persistence and degradability

Persistence and degradability No information available.

## 12.3. Bioaccumulative potential

## Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient
Propylene glycol	-1.07
2-butoxyethanol	0.81
Diethanolamine	-2.46
1,4-dioxane	-0.42

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment**Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Propylene glycol 57-55-6	The substance is not PBT / vPvB
Orange oil 8028-48-6	The substance is not PBT / vPvB
2-butoxyethanol 111-76-2	The substance is not PBT / vPvB
Diethanolamine 111-42-2	The substance is not PBT / vPvB
1,4-dioxane 123-91-1	The substance is not PBT / vPvB

#### 12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

## 12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Waste should not be disposed of by releasing to water source, drains, sewers, or the ground. Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

Waste codes / waste designations

according to EWC / AVV

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

## SECTION 14: Transport information

<u>IATA</u>	<u>-</u>	Not regulated
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not applicable

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users
Special Provisions None
Note: None

IMDGNot regulated14.1UN number or ID numberNot regulatedNot regulated

14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 Not regulated
 Not applicable

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk No information available

according to IMO instruments

RIDNot regulated14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot applicable14.5Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

<u>ADR</u>	_	Not regulated
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable

14.6 Special Precautions for Users

Special Provisions None

ADN
14.1 UN/ID no Not regulated
14.2 EPNN Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not applicable
14.5 Environmental hazard Not applicable

14.6 Special Precautions for Users
Special Provisions None

## SECTION 15: Regulatory information

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

## National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Propylene glycol 57-55-6	RG 84
2-butoxyethanol 111-76-2	RG 84
Diethanolamine 111-42-2	RG 49,RG 49bis
1,4-dioxane 123-91-1	RG 84

#### Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

TA Luft (German Air Pollution Control Regulation)

Chemical name	Number	Class
1,4-dioxane	5.2.5	Class I

#### Netherlands

#### Carcinogenic, mutagenic and reproductive toxic effects

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
1,4-dioxane	Present	-	-

#### Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Group I Storage of Hazardous Material SC 10/12 WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Class A

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
2-butoxyethanol - 111-76-2	75	-
Diethanolamine - 111-42-2	75	-
1,4-dioxane - 123-91-1	75	-
	28	

#### **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

## EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)	
Orange oil - 8028-48-6	Plant protection agent	

#### Biocidal Products Regulation (EU) No 528/2012 (BPR)

21001441 1 10440to 11094141011 (20) 110 02012012 (21 11)	
Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Orange oil - 8028-48-6	Product-type 19: Repellents and attractants

#### International Inventories

Contact supplier for inventory compliance status

#### 15.2. Chemical safety assessment

Chemical Safety Report No information available

## SECTION 16: Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

H350 - May cause cancer

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

#### Legend

SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

## Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

SCBA Self-contained breathing apparatus

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA API)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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#### **Disclaimer**

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**End of Safety Data Sheet**