



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)

SAFETY DATA SHEET

856 Neutral OA Flux 10Ltrs

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

1.1 Product identifier

Product name : 856 Neutral OA Flux 10Ltrs
Product code : 116097.0010
Product description : Not available.
Product type : Liquid.

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

Restricted to professional users.

Material uses : soldering

1.3 Details of the supplier of the safety data sheet

Alpha, Alent plc Forsyth Road Sheerwater Woking Surrey England GU21 5RZ Tel: +44(0)1483 758400 Fax: +44(0)1483 728837	Manufacturer : Alpha, Alent plc Koenendelseweg 29 5222 BG 's-Hertogenbosch The Netherlands Tel: +31 73 6280 111 Fax: +31 73 6219 283
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Contact person : europeanregulatory@alent.com

Emergency phone: +44 1483 758400

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H336

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.8%

Classification according to Directive 1999/45/EC [DPD]

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SECTION 2: Hazards identificationEurope

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : F; R11
Xi; R41
R67

Physical/chemical hazards : Highly flammable.

Human health hazards : Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.

See Section 16 for the full text of the R phrases or H statements declared above.

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

2.2 Label elements**Hazard pictograms**

Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.
Causes serious eye damage.
Causes skin irritation.
May cause drowsiness or dizziness.

Precautionary statements

Prevention : Wear protective gloves: 4 - 8 hours (breakthrough time): nitrile rubber. Wear eye or face protection: Recommended: safety glasses with side-shields . Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Immediately call a POISON CENTER or physician.

Storage : Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : propan-2-ol
Alcohols, C8-10, ethoxylated propoxylated
Hydrobromic acid

Supplemental label elements : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe					

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SECTION 3: Composition/information on ingredients

Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8 REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥5 - <10 ≥3 - <5	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22 Xi; R41, R38 See Section 16 for the full text of the R- phrases declared above.	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral) See Section 16 for the full text of the H statements declared above.	[1]
Austria					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8 REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥5 - <10 ≥3 - <5	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
Belgium					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8 REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥5 - <10 ≥3 - <5	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
Bulgaria					
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]

856 Neutral OA Flux 10Ltrs**SECTION 3: Composition/information on ingredients**

Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Croatia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	-
Czech Republic					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Denmark					

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SECTION 3: Composition/information on ingredients

Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	Index: 603-071-00-1		Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xn; R22, R48/22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Estonia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	Index: 603-071-00-1		Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xn; R22, R48/22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Finland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	Index: 603-071-00-1		Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xn; R22, R48/22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
France					

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Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
glycerol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Not classified.	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral) Not classified.	[2]
Germany					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1		Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Greece					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1		Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Hungary					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
glycerol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Not classified.	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral) Not classified.	[2]

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Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	Index: 603-071-00-1		Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1]
			Xn; R22, R48/22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Ireland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	Index: 603-071-00-1		Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
			Xn; R22, R48/22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Italy					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	Index: 603-071-00-1		Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1]
			Xn; R22, R48/22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Latvia					

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Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol			Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1]
Lithuania					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol			Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]
Netherlands					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol			Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1]
Norway					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11	Flam. Liq. 2, H225	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol			Xi; R37	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1]

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SECTION 3: Composition/information on ingredients

2,2'-iminodiethanol	01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
Poland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
Hydrobromic acid	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Portugal					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
Hydrobromic acid	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Romania					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
Hydrobromic acid	REACH #: 01-2119479072-39	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]

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SECTION 3: Composition/information on ingredients

2,2'-iminodiethanol	EC: 233-113-0 CAS: 10035-10-6 REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1]
Slovakia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1]
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Slovenia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
Spain					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28	≥1 - <3	Xn; R22, R48/22	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302	[1] [2]

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SECTION 3: Composition/information on ingredients

glycerol	EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1 REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Xi; R41, R38 Not classified.	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral) Not classified.	[2]
Sweden					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
Switzerland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1] [2]
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]
Turkey					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8	≥5 - <10	Xn; R22	Acute Tox. 4, H302	[1]
	REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥3 - <5	Xi; R41 C; R34	Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0	≥1 - <3	Xi; R37 Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315	[1] [2]

SECTION 3: Composition/information on ingredients

United Kingdom (UK)	CAS: 111-42-2 Index: 603-071-00-1			Eye Dam. 1, H318 STOT RE 2, H373 (oral)	
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥75 - <90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Alcohols, C8-10, ethoxylated propoxylated Hydrobromic acid	CAS: 68603-25-8 REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6	≥5 - <10	Xn; R22 Xi; R41 C; R34	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314	[1] [1] [2]
2,2'-iminodiethanol	REACH #: 01-2119488930-28 EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	≥1 - <3	Xn; R22, R48/22 Xi; R41, R38	Eye Dam. 1, H318 STOT SE 3, H335 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (oral)	[1]
glycerol	REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5	≥1 - <3	Not classified.	Not classified.	[2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

SECTION 4: First aid measures**4.1 Description of first aid measures****Eye contact**

- : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

- : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

- : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

- Hazards from the substance or mixture** : Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe Hydrobromic acid	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values STEL: 2 ppm 15 minutes. STEL: 6.7 mg/m ³ 15 minutes.
Austria propan-2-ol	GKV_MAK (Austria, 12/2011). PEAK: 2000 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 800 ppm, 4 times per shift, 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Hydrobromic acid	GKV_MAK (Austria, 12/2011). TWA: 2 ppm 8 hours. TWA: 6.7 mg/m ³ 8 hours. CEIL: 2 ppm CEIL: 6.7 mg/m ³
2,2'-iminodiethanol	GKV_MAK (Austria, 9/2007). Absorbed through skin. Skin

SECTION 8: Exposure controls/personal protection**Belgium**

propan-2-ol

sensitiser.

STEL: 4 mg/m³, 4 times per shift, 15 minutes.
 STEL: 0.92 ppm, 4 times per shift, 15 minutes.
 TWA: 2 mg/m³ 8 hours.
 TWA: 0.46 ppm 8 hours.

Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014).

STEL: 1000 mg/m³ 15 minutes.
 STEL: 400 ppm 15 minutes.
 TWA: 500 mg/m³ 8 hours.
 TWA: 200 ppm 8 hours.

Hydrobromic acid

Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014).

STEL: 2 ppm 15 minutes.
 STEL: 6.7 mg/m³ 15 minutes.

2,2'-iminodiethanol

Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).**Absorbed through skin.**

TWA: 2 mg/m³ 8 hours.
 TWA: 0.46 ppm 8 hours.

glycerol

Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014).

TWA: 10 mg/m³ 8 hours. Form: mist

Bulgaria

propan-2-ol

България Министерство на труда и социалната политика и Министерство на здравеопазването (Bulgaria, 1/2012).

Limit value 15 min: 1225 mg/m³ 15 minutes.
 Limit value 8 hours: 980 mg/m³ 8 hours.

Hydrobromic acid

България Министерство на труда и социалната политика и Министерство на здравеопазването (Bulgaria, 1/2012).

Limit value 15 min: 6.7 mg/m³ 15 minutes.
 Limit value 15 min: 2 ppm 15 minutes.

2,2'-iminodiethanol

РБ МТСП и МЗ Наредба №13/2003 (Bulgaria, 8/2007).**Absorbed through skin.**

Limit value 8 hours: 10 mg/m³ 8 hours.

Croatia

propan-2-ol

MinGoRP GVI/KGVI (Croatia, 6/2013).

STELV: 1250 mg/m³ 15 minutes.
 STELV: 500 ppm 15 minutes.
 ELV: 999 mg/m³ 8 hours.
 ELV: 400 ppm 8 hours.

Hydrobromic acid

MinGoRP GVI/KGVI (Croatia, 6/2013).

STELV: 6.7 mg/m³ 15 minutes.
 STELV: 2 ppm 15 minutes.

glycerol

MinGoRP GVI/KGVI (Croatia, 6/2013).

ELV: 10 mg/m³ 8 hours.

Czech Republic

propan-2-ol

MZCR PEL/NPK-P (Czech Republic, 1/2013). Absorbed through skin.

STEL: 1000 mg/m³ 15 minutes.
 STEL: 407 ppm 15 minutes.
 TWA: 500 mg/m³ 8 hours.
 TWA: 203.5 ppm 8 hours.

Hydrobromic acid

MZCR PEL/NPK-P (Czech Republic, 1/2013).

STEL: 6 mg/m³ 15 minutes.
 STEL: 1.812 ppm 15 minutes.
 TWA: 0.302 ppm 8 hours.
 TWA: 1 mg/m³ 8 hours.

2,2'-iminodiethanol

178/2001 (Czech Republic, 12/2007).

STEL: 10 mg/m³ 15 minutes.
 STEL: 2.32 ppm 15 minutes.
 TWA: 5 mg/m³ 8 hours.
 TWA: 1.16 ppm 8 hours.

glycerol

MZCR PEL/NPK-P (Czech Republic, 1/2013).

SECTION 8: Exposure controls/personal protection

Denmark

propan-2-ol

STEL: 15 mg/m³ 15 minutes. Form: mist
TWA: 10 mg/m³ 8 hours. Form: mist
TWA: 2.44 ppm 8 hours. Form: mist
STEL: 3.66 ppm 15 minutes. Form: mist

Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin.

TWA: 490 mg/m³ 8 hours.

TWA: 200 ppm 8 hours.

Hydrobromic acid

Arbejdstilsynet (Denmark, 10/2012).

CEIL: 2 ppm

CEIL: 6.7 mg/m³

2,2'-iminodiethanol

Arbejdstilsynet (Denmark, 3/2008). Absorbed through skin.

TWA: 2 mg/m³ 8 hours.

TWA: 0.46 ppm 8 hours.

Estonia

propan-2-ol

Töökeseakkonna keemiliste ohutegurite piirnõrmi määrus nr 293 (Estonia, 1/2008).

STEL: 600 mg/m³ 15 minutes.

STEL: 250 ppm 15 minutes.

TWA: 350 mg/m³ 8 hours.

TWA: 150 ppm 8 hours.

Hydrobromic acid

Töökeseakkonna keemiliste ohutegurite piirnõrmi määrus nr 293 (Estonia, 1/2008).

STEL: 6.7 mg/m³ 15 minutes.

STEL: 2 ppm 15 minutes.

2,2'-iminodiethanol

Sotsiaalminister (Estonia, 10/2007). Absorbed through skin.

STEL: 30 mg/m³ 15 minutes.

STEL: 6 ppm 15 minutes.

TWA: 15 mg/m³ 8 hours.

TWA: 3 ppm 8 hours.

glycerol

Töökeseakkonna keemiliste ohutegurite piirnõrmi määrus nr 293 (Estonia, 1/2008).

TWA: 10 mg/m³ 8 hours.

Finland

propan-2-ol

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

STEL: 620 mg/m³ 15 minutes.

STEL: 250 ppm 15 minutes.

TWA: 500 mg/m³ 8 hours.

TWA: 200 ppm 8 hours.

Hydrobromic acid

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

STEL: 2 ppm 15 minutes.

STEL: 6.7 mg/m³ 15 minutes.

2,2'-iminodiethanol

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007). Absorbed through skin.

TWA: 2 mg/m³ 8 hours.

TWA: 0.46 ppm 8 hours.

glycerol

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

TWA: 20 mg/m³ 8 hours.

France

propan-2-ol

Ministère du travail (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits

STEL: 980 mg/m³ 15 minutes.

STEL: 400 ppm 15 minutes.

Hydrobromic acid

Ministère du travail (France, 7/2012). Notes: Labour Act, Art. 4412-150 (Regulatory indicative exposure limits)

STEL: 2 ppm 15 minutes.

STEL: 6.7 mg/m³ 15 minutes.

2,2'-iminodiethanol

INRS (France, 12/2007). Notes: indicative exposure limits

SECTION 8: Exposure controls/personal protection

glycerol	TWA: 15 mg/m ³ 8 hours. TWA: 3 ppm 8 hours. Ministère du travail (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits TWA: 10 mg/m ³ 8 hours. Form: aerosol
Germany	
propan-2-ol	TRGS900 AGW (Germany, 4/2014). PEAK: 1000 mg/m ³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Hydrobromic acid	TRGS900 AGW (Germany, 4/2014). TWA: 6.7 mg/m ³ 8 hours. PEAK: 6.7 mg/m ³ 15 minutes.
Greece	
propan-2-ol	Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). STEL: 1225 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 980 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.
Hydrobromic acid	Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). TWA: 3 ppm 8 hours. TWA: 10 mg/m ³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 10 mg/m ³ 15 minutes.
2,2'-iminodiethanol	PD 90/1999 (Greece, 8/2007). TWA: 15 mg/m ³ 8 hours. TWA: 3 ppm 8 hours.
glycerol	Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). TWA: 10 mg/m ³ 8 hours.
Hungary	
propan-2-ol	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011). Absorbed through skin. Skin sensitiser. PEAK: 2000 mg/m ³ 15 minutes. TWA: 500 mg/m ³ 8 hours.
Hydrobromic acid	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011). PEAK: 6.7 mg/m ³ 15 minutes.
Ireland	
propan-2-ol	NAOSH (Ireland, 12/2011). Absorbed through skin. OELV-15min: 400 ppm 15 minutes. OELV-8hr: 200 ppm 8 hours.
Hydrobromic acid	NAOSH (Ireland, 12/2011). OELV-15min: 2 ppm 15 minutes. OELV-15min: 6.6 mg/m ³ 15 minutes.
2,2'-iminodiethanol	NAOSH (Ireland, 8/2007). OELV-8hr: 15 mg/m ³ 8 hours. OELV-8hr: 3 ppm 8 hours.
glycerol	NAOSH (Ireland, 12/2011). OELV-8hr: 10 mg/m ³ 8 hours. Form: mist
Italy	
Hydrobromic acid	Ministry of Labour and Social Policy (Italy, 10/2013). Short Term: 2 ppm 15 minutes. Short Term: 6.7 mg/m ³ 15 minutes.
Latvia	

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propan-2-ol	Ministru kabineta - AER (Latvia, 2/2011). STEL: 600 mg/m ³ 15 minutes. TWA: 350 mg/m ³ 8 hours.
Hydrobromic acid	Ministru kabineta - AER (Latvia, 2/2011). STEL: 2 ppm 15 minutes. STEL: 6.7 mg/m ³ 15 minutes.
Lithuania	
propan-2-ol	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). STEL: 600 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
Hydrobromic acid	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). Absorbed through skin. STEL: 6.7 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes.
2,2'-iminodiethanol	Del Lietuvos Higienos Normos (Lithuania, 10/2007). Absorbed through skin. STEL: 30 mg/m ³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 15 mg/m ³ 8 hours. TWA: 3 ppm 8 hours.
Netherlands	
Hydrobromic acid	MinSZW Wettelijke Grenswaarden (Netherlands, 6/2014). STEL, 15-min: 6.7 mg/m ³ 15 minutes.
Norway	
propan-2-ol	FOR-2011-12-06-1358 (Norway, 1/2013). TWA: 245 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
Hydrobromic acid	FOR-2011-12-06-1358 (Norway, 1/2013). CEIL: 10 mg/m ³ CEIL: 3 ppm
2,2'-iminodiethanol	Arbeidstilsynet (Norway, 11/2007). TWA: 15 mg/m ³ 8 hours. TWA: 3 ppm 8 hours.
Poland	
propan-2-ol	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). STEL: 1200 mg/m ³ 15 minutes. TWA: 900 mg/m ³ 8 hours.
Hydrobromic acid	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). CEIL: 6.5 mg/m ³
2,2'-iminodiethanol	Ministra Pracy i Polityki Społecznej (Poland, 9/2007). TWA: 9 mg/m ³ 8 hours.
glycerol	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). TWA: 10 mg/m ³ 8 hours. Form: Inhalable fraction
Portugal	
propan-2-ol	Instituto Português da Qualidade (Portugal, 3/2007). STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.
Hydrobromic acid	Instituto Português da Qualidade (Portugal, 3/2007). CEIL: 2 ppm
2,2'-iminodiethanol	Instituto Português da Qualidade (Portugal, 3/2007). Absorbed through skin. TWA: 2 mg/m ³ 8 hours.
glycerol	Instituto Português da Qualidade (Portugal, 3/2007). TWA: 10 mg/m ³ 8 hours. Form: mist
Romania	

SECTION 8: Exposure controls/personal protection

propan-2-ol	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). VLA: 200 mg/m ³ 8 hours. VLA: 81 ppm 8 hours. Short term: 500 mg/m ³ 15 minutes. Short term: 203 ppm 15 minutes.
Hydrobromic acid	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). Short term: 6.7 mg/m ³ 15 minutes. Short term: 2 ppm 15 minutes.
Slovakia	
propan-2-ol	Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). STEL: 1000 mg/m ³ 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.
Hydrobromic acid	Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). STEL: 6.7 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes.
glycerol	Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). TWA: 10 mg/m ³ 8 hours.
Slovenia	
propan-2-ol	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010). TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. KTV: 2000 mg/m ³ , 4 times per shift, 15 minutes. KTV: 800 ppm, 4 times per shift, 15 minutes.
Hydrobromic acid	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010). TWA: 6.7 mg/m ³ 8 hours. TWA: 2 ppm 8 hours. KTV: 6.7 mg/m ³ , 4 times per shift, 15 minutes. KTV: 2 ppm, 4 times per shift, 15 minutes.
2,2'-iminodiethanol	Uradni list Republike Slovenije (Slovenia, 6/2007). Absorbed through skin. TWA: 15 mg/m ³ 8 hours. Form: inhalable fraction
Spain	
propan-2-ol	INSHT (Spain, 1/2014). STEL: 1000 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Hydrobromic acid	INSHT (Spain, 1/2014). STEL: 2 ppm 15 minutes. STEL: 7 mg/m ³ 15 minutes.
2,2'-iminodiethanol	INSHT (Spain, 1/2008). Absorbed through skin. TWA: 2 mg/m ³ 8 hours. TWA: 0.46 ppm 8 hours.
glycerol	INSHT (Spain, 1/2014). TWA: 10 mg/m ³ 8 hours. Form: mist
Sweden	
propan-2-ol	AFS 2011:18 (Sweden, 12/2011). STEL: 600 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
Hydrobromic acid	AFS 2011:18 (Sweden, 12/2011). TWA: 1 ppm 8 hours. TWA: 3.5 mg/m ³ 8 hours. CEIL: 2 ppm 15 minutes.

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2,2'-iminodiethanol	CEIL: 7 mg/m ³ 15 minutes. AFS 2005:17 (Sweden, 6/2007). Absorbed through skin. STEL: 30 mg/m ³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 15 mg/m ³ 8 hours. TWA: 3 ppm 8 hours.
Switzerland	
propan-2-ol	SUVA (Switzerland, 1/2014). Notes: not temporary STEL: 1000 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Hydrobromic acid	SUVA (Switzerland, 1/2014). TWA: 2 ppm 8 hours. TWA: 6.7 mg/m ³ 8 hours. STEL: 2 ppm 15 minutes. STEL: 6.7 mg/m ³ 15 minutes.
2,2'-iminodiethanol	SUVA (Switzerland, 1/2007). Absorbed through skin. Skin sensitiser. Notes: not temporary TWA: 1 ppm 8 hours. Form: inhalable dust SUVA (Switzerland, 1/2007). Absorbed through skin. Skin sensitiser. STEL: 1 ppm 15 minutes. Form: inhalable dust
glycerol	SUVA (Switzerland, 1/2014). STEL: 100 mg/m ³ 15 minutes. Form: Inhalable dust (total dust) TWA: 50 mg/m ³ 8 hours. Form: Inhalable dust (total dust)
Turkey	
propan-2-ol	NIOSH REL (United States, 10/2013). STEL: 1225 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 980 mg/m ³ 10 hours. TWA: 400 ppm 10 hours.
Hydrobromic acid	TR ISGGM OEL (Turkey, 12/2013). STEL: 6.7 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes.
2,2'-iminodiethanol	NIOSH REL (United States, 6/2008). TWA: 15 mg/m ³ 10 hours. TWA: 3 ppm 10 hours.
United Kingdom (UK)	
propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.
Hydrobromic acid	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 10 mg/m ³ 15 minutes. STEL: 3 ppm 15 minutes.
glycerol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: Mist

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be

SECTION 8: Exposure controls/personal protection

required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 4 - 8 hours (breakthrough time): nitrile rubber

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: overall

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour (Type A) and particulate filter

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Physical state	: Liquid.
Colour	: Colourless to light yellow.
Odour	: Alcohol-like.
pH	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 82°C
Flash point	: Closed cup: 12°C
Upper/lower flammability or explosive limits	: Lower: 2% Upper: 12%
Relative density	: 0.832
Solubility(ies)	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
VOC content	: 81.6 % (w/w) [ISO % 11890-2]

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Hydrobromic acid	LC50 Inhalation Gas.	Rat	2858 ppm	1 hours

Conclusion/Summary : Not available.**Acute toxicity estimates**

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SECTION 11: Toxicological information

Route	ATE value
Oral	5030.2 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary : Not available.**Sensitiser****Conclusion/Summary** : Not available.**Mutagenicity****Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Reproductive toxicity****Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol	Category 3	Not applicable.	Narcotic effects
Hydrobromic acid	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2,2'-iminodiethanol	Category 2	Oral	Not determined

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.**Potential acute health effects**

- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Ingestion** : Can cause central nervous system (CNS) depression.
- Skin contact** : Causes skin irritation.
- Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : No known significant effects or critical hazards.
- 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.
- Other information** : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
propan-2-ol	Acute LC50 1400000 to 1950000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
2,2'-iminodiethanol	Acute LC50 1400000 µg/l Acute LC50 2150 µg/l Fresh water Acute LC50 100000 µg/l Fresh water	Fish - Gambusia affinis Daphnia - Daphnia pulex Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 48 hours 96 hours
	Chronic NOEC 540 ppm Marine water	Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

- Conclusion/Summary** : Not available.

12.2 Persistence and degradability

- Conclusion/Summary** : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
propan-2-ol	0.05	-	low

12.4 Mobility in soil

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SECTION 12: Ecological informationSoil/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 : No known significant effects or critical hazards.**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methodsProduct

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 environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.European waste catalogue (EWC)

Waste code	Waste designation
14 06 03*	other solvents and solvent mixtures

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN number	1993	1993
14.2 UN proper shipping name	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol)	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol)
14.3 Transport hazard class(es)	3 	3 
14.4 Packing group	II	II

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SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

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

Other EU regulations

Europe inventory : Not determined.

National regulations

Austria

Belgium

Product/ingredient name	List name	Name on list	Classification	Notes
propan-2-ol	Belgium Carcinogen chemicals	Isopropylalkohol	Carc.	-

Bulgaria

Croatia

Czech Republic

Denmark

Estonia

Finland

France

Germany

Hazard class for water : 2 Appendix No. 4

Greece

Hungary

Ireland

Italy

Latvia

Lithuania

Netherlands

Norway

Poland

Portugal

Romania

Slovakia

Slovenia

Spain

Sweden

Switzerland

Turkey

United Kingdom (UK)

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Date of printing 04.05.2016.

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Version : 2.01

Notice to reader

▮ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
STOT SE 3, H336	Calculation method
<u>Europe</u>	
Full text of abbreviated H statements	: H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 STOT RE 2, H373 (oral) SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (oral) - Category 2 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Full text of abbreviated R phrases	: R11- Highly flammable. R22- Harmful if swallowed. R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R36- Irritating to eyes. R37- Irritating to respiratory system. R38- Irritating to skin. R67- Vapours may cause drowsiness and dizziness.
Full text of classifications [DSD/DPD]	: F - Highly flammable C - Corrosive Xn - Harmful Xi - Irritant

856 Neutral OA Flux 10Ltrs

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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