



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

SAFETY DATA SHEET

EF-9301 No Clean Flux 25Ltrs

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

1.1 Product identifier

Product name : EF-9301 No Clean Flux 25Ltrs
Product code : 144032.0025
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

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
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 3, H412

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity :

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

EF-9301 No Clean Flux 25Ltrs

SECTION 2: Hazards identification**Europe**

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

Classification : F; R11
Xi; R36
R67

Physical/chemical hazards : Highly flammable.

Human health hazards : Irritating 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 irritation.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.

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. Avoid release to the environment.

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.

Storage : Keep cool.

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

Hazardous ingredients : propan-2-ol

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 Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
cyclohexylamine	REACH #: 01-2119486803-29	≥0.1 - <0.3	R10	Flam. Liq. 3, H226	[1]

Date of issue/Date of revision : 01.09.2015.

2/26

EF-9301 No Clean Flux 25Ltrs

SECTION 3: Composition/information on ingredients

Nonylphenol, branched, ethoxylated	EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6 REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	Repr. Cat. 3; R62 Xn; R21/22 C; R34 N; R50/53 See Section 16 for the full text of the R- phrases declared above.	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 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	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Belgium					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Bulgaria					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]

EF-9301 No Clean Flux 25Ltrs

SECTION 3: Composition/information on ingredients

	EC: 500-209-1 CAS: 68412-54-4			Aquatic Chronic 1, H410	
Croatia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Czech Republic					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Denmark					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Estonia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302	[1] [2]

EF-9301 No Clean Flux 25Ltrs

SECTION 3: Composition/information on ingredients

	CAS: 108-91-8 Index: 612-050-00-6		Xn; R21/22 C; R34	Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Finland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
			R10	Flam. Liq. 3, H226	
			Repr. Cat. 3; R62 Xn; R21/22 C; R34	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1]
				Aquatic Chronic 1, H410	
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53		
France					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
			R10	Flam. Liq. 3, H226	
			Repr. Cat. 3; R62 Xn; R21/22 C; R34	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1]
				Aquatic Chronic 1, H410	
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53		
Germany					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67	Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
			R10	Flam. Liq. 3, H226	
			Repr. Cat. 3; R62 Xn; R21/22 C; R34	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1]
				Aquatic Chronic 1, H410	
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53		
Greece					

EF-9301 No Clean Flux 25Ltrs

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	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Hungary					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Ireland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Italy					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1]

EF-9301 No Clean Flux 25Ltrs

SECTION 3: Composition/information on ingredients

Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Latvia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Lithuania					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Netherlands					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Norway					

EF-9301 No Clean Flux 25Ltrs

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	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Poland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Portugal					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Romania					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1] [2]

EF-9301 No Clean Flux 25Ltrs

SECTION 3: Composition/information on ingredients

Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Slovakia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Slovenia					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Spain					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility)	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Sweden					

EF-9301 No Clean Flux 25Ltrs

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	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Switzerland					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
Turkey					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0 CAS: 108-91-8 Index: 612-050-00-6	≥0.1 - <0.3	Xi; R36 R67 R10 Repr. Cat. 3; R62 Xn; R21/22 C; R34	Eye Irrit. 2, H319 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1] [2]
Nonylphenol, branched, ethoxylated	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	[1]
United Kingdom (UK)					
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥90	F; R11	Flam. Liq. 2, H225	[1] [2]
Rosin, hydrogenated	REACH #: 01-2119487113-41 EC: 266-041-3 CAS: 65997-06-0	≥5 - <10	Xi; R36 R67 Not classified.	Eye Irrit. 2, H319 STOT SE 3, H336 Not classified.	[2]
cyclohexylamine	REACH #: 01-2119486803-29 EC: 203-629-0	≥0.1 - <0.3	R10 Repr. Cat. 3; R62	Flam. Liq. 3, H226 Acute Tox. 4, H302	[1] [2]

EF-9301 No Clean Flux 25Ltrs

SECTION 3: Composition/information on ingredients

Nonylphenol, branched, ethoxylated	CAS: 108-91-8 Index: 612-050-00-6		Xn; R21/22 C; R34	Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f (Fertility) Aquatic Acute 1, H400	[1]
	REACH #: 01-2119485218-31 EC: 500-209-1 CAS: 68412-54-4	≥0.03 - <0.1	N; R50/53	Aquatic Chronic 1, H410	

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** : 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. Get medical attention.
- Inhalation** : 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. Get medical attention. If necessary, call a poison center or physician. 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.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Get medical attention. If necessary, call a poison center or 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.

4.2 Most important symptoms and effects, both acute and delayedPotential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

EF-9301 No Clean Flux 25Ltrs

SECTION 4: First aid measures

Over-exposure signs/symptoms

- | | |
|---------------------|---|
| Eye contact | : Adverse symptoms may include the following:
pain or irritation
watering
redness |
| Inhalation | : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|----------------------------|---|
| Notes to physician | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|---------------------------------------|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |

5.2 Special hazards arising from the substance or mixture

- | | |
|--|---|
| 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide |

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|------------------------------------|---|

SECTION 6: Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities.

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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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.

EF-9301 No Clean Flux 25Ltrs

SECTION 7: Handling and storage**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 No exposure limit value known.	
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.
cyclohexylamine	GKV_MAK (Austria, 12/2011). Absorbed through skin. CEIL: 40 mg/m ³ 15 minutes. CEIL: 10 ppm 15 minutes. TWA: 40 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Belgium propan-2-ol	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). STEL: 1000 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
cyclohexylamine	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 42 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Bulgaria propan-2-ol	България Министерство на труда и социалната политика и Министерство на здравеопазването (Bulgaria, 1/2012). Limit value 15 min: 1225 mg/m ³ 15 minutes. Limit value 8 hours: 980 mg/m ³ 8 hours.
cyclohexylamine	България Министерство на труда и социалната политика и Министерство на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 20 mg/m ³ 8 hours.
Croatia propan-2-ol	MinGoRP GVI/KGVI (Croatia, 6/2013). STELV: 1250 mg/m ³ 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m ³ 8 hours. ELV: 400 ppm 8 hours.
cyclohexylamine	MinGoRP GVI/KGVI (Croatia, 6/2013). ELV: 41 mg/m ³ 8 hours. ELV: 10 ppm 8 hours.
Czech Republic	

EF-9301 No Clean Flux 25Ltrs

SECTION 8: Exposure controls/personal protection

propan-2-ol	MZCR PEL/NPK-P (Czech Republic, 1/2013). Absorbed through skin. STEL: 1000 mg/m ³ 15 minutes. STEL: 407 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 203.5 ppm 8 hours.
cyclohexylamine	MZCR PEL/NPK-P (Czech Republic, 1/2013). Absorbed through skin. STEL: 40 mg/m ³ 15 minutes. STEL: 9.88 ppm 15 minutes. TWA: 20 mg/m ³ 8 hours. TWA: 4.94 ppm 8 hours.
Denmark	
propan-2-ol	Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin. TWA: 490 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
cyclohexylamine	Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin. TWA: 40 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Estonia	
propan-2-ol	Töökeskonna keemiliste ohutegurite piirnормid määrus nr 293 (Estonia, 1/2008). STEL: 600 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
cyclohexylamine	Töökeskonna keemiliste ohutegurite piirnормid määrus nr 293 (Estonia, 1/2008). STEL: 40 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes. TWA: 20 mg/m ³ 8 hours. TWA: 5 ppm 8 hours.
Finland	
propan-2-ol	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014). STEL: 620 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
cyclohexylamine	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014). Absorbed through skin. STEL: 41 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes. TWA: 4.1 mg/m ³ 8 hours. TWA: 1 ppm 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/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
cyclohexylamine	Ministère du travail (France, 7/2012). Absorbed through skin. Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits TWA: 40 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Germany	

EF-9301 No Clean Flux 25Ltrs

SECTION 8: Exposure controls/personal protection

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.
cyclohexylamine	TRGS900 AGW (Germany, 4/2014). TWA: 8.2 mg/m ³ 8 hours. TWA: 2 ppm 8 hours. PEAK: 16.4 mg/m ³ 15 minutes. PEAK: 4 ppm 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.
cyclohexylamine	Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). TWA: 40 mg/m ³ 8 hours. TWA: 10 ppm 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.
cyclohexylamine	25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011). PEAK: 40 mg/m ³ 15 minutes. TWA: 40 mg/m ³ 8 hours.
Ireland	
propan-2-ol	NAOSH (Ireland, 12/2011). Absorbed through skin. OELV-15min: 400 ppm 15 minutes. OELV-8hr: 200 ppm 8 hours.
cyclohexylamine	NAOSH (Ireland, 12/2011). Absorbed through skin. OELV-8hr: 40 mg/m ³ 8 hours. OELV-8hr: 10 ppm 8 hours.
Italy	
No exposure limit value known.	
Latvia	
propan-2-ol	Ministru kabineta - AER (Latvia, 2/2011). STEL: 600 mg/m ³ 15 minutes. TWA: 350 mg/m ³ 8 hours.
cyclohexylamine	Ministru kabineta - AER (Latvia, 2/2011). TWA: 1 mg/m ³ 8 hours.
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.
cyclohexylamine	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). STEL: 40 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes. TWA: 20 mg/m ³ 8 hours. TWA: 5 ppm 8 hours.
Netherlands	
No exposure limit value known.	

SECTION 8: Exposure controls/personal protection

Norway

propan-2-ol

FOR-2011-12-06-1358 (Norway, 1/2013).

TWA: 245 mg/m³ 8 hours.

TWA: 100 ppm 8 hours.

cyclohexylamine

FOR-2011-12-06-1358 (Norway, 1/2013). Absorbed through skin.

TWA: 40 mg/m³ 8 hours.

TWA: 10 ppm 8 hours.

Poland

propan-2-ol

Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014).

STEL: 1200 mg/m³ 15 minutes.

TWA: 900 mg/m³ 8 hours.

cyclohexylamine

Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014).

STEL: 80 mg/m³ 15 minutes.

TWA: 40 mg/m³ 8 hours.

Portugal

propan-2-ol

Instituto Português da Qualidade (Portugal, 3/2007).

STEL: 400 ppm 15 minutes.

TWA: 200 ppm 8 hours.

cyclohexylamine

Instituto Português da Qualidade (Portugal, 3/2007).

TWA: 10 ppm 8 hours.

Romania

propan-2-ol

HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012).

VLA: 200 mg/m³ 8 hours.

VLA: 81 ppm 8 hours.

Short term: 500 mg/m³ 15 minutes.

Short term: 203 ppm 15 minutes.

cyclohexylamine

HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012).

VLA: 20 mg/m³ 8 hours.

VLA: 5 ppm 8 hours.

Short term: 40 mg/m³ 15 minutes.

Short term: 10 ppm 15 minutes.

Slovakia

propan-2-ol

Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011).

STEL: 1000 mg/m³ 15 minutes.

TWA: 500 mg/m³ 8 hours.

TWA: 200 ppm 8 hours.

STEL: 400 ppm 15 minutes.

cyclohexylamine

Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011).

STEL: 40 mg/m³ 15 minutes.

TWA: 20 mg/m³ 8 hours.

TWA: 5 ppm 8 hours.

STEL: 10 ppm 15 minutes.

Slovenia

propan-2-ol

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).

TWA: 500 mg/m³ 8 hours.

TWA: 200 ppm 8 hours.

KTV: 2000 mg/m³, 4 times per shift, 15 minutes.

KTV: 800 ppm, 4 times per shift, 15 minutes.

cyclohexylamine

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010). Absorbed through skin.

TWA: 41 mg/m³ 8 hours.

TWA: 10 ppm 8 hours.

KTV: 41 mg/m³, 4 times per shift, 15 minutes.

SECTION 8: Exposure controls/personal protection

	KTV: 10 ppm, 4 times per shift, 15 minutes.
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.
cyclohexylamine	INSHT (Spain, 1/2014). TWA: 41 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
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.
cyclohexylamine	AFS 2011:18 (Sweden, 12/2011). STEL: 40 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes. TWA: 20 mg/m ³ 8 hours. TWA: 5 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.
cyclohexylamine	SUVA (Switzerland, 1/2014). Absorbed through skin. Notes: not temporary STEL: 16.4 mg/m ³ 15 minutes. STEL: 4 ppm 15 minutes. TWA: 8.2 mg/m ³ 8 hours. TWA: 2 ppm 8 hours.
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.
cyclohexylamine	NIOSH REL (United States, 10/2013). TWA: 40 mg/m ³ 10 hours. TWA: 10 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.
Rosin, hydrogenated	EH40-MEL (United Kingdom (UK), 2002). Skin sensitiser. Inhalation sensitiser. TWA: 0.05 mg/m ³ 8 hours. Form: Rosin-based solder flux fume STEL: 0.15 mg/m ³ 15 minutes. Form: Rosin-based solder flux fume
cyclohexylamine	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 41 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.

SECTION 8: Exposure controls/personal protection

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 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. 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

EF-9301 No Clean Flux 25Ltrs

SECTION 8: Exposure controls/personal protection

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.

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 [Pensky-Martens.]
Upper/lower flammability or explosive limits : Lower: 2%
Upper: 12%
Relative density : 0.798
Solubility(ies) : Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water : Not available.
Auto-ignition temperature : Not available.
:
VOC content 92.6 % (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.

EF-9301 No Clean Flux 25Ltrs

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

Product/ingredient name	Result	Species	Dose	Exposure
propan-2-ol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	- -

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

Not available.

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	-
cyclohexylamine	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	5 minutes 100 microliters	-
	Skin - Severe irritant	Human	-	48 hours 125 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Severe irritant	Rabbit	-	500 microliters	-

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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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

SECTION 11: Toxicological information

- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Ingestion** : Can cause central nervous system (CNS) depression.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : Causes serious eye irritation.

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** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : Adverse symptoms may include the following:
pain or irritation
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
cyclohexylamine	Acute LC50 1400000 µg/l Acute EC50 20 mg/l Fresh water	Fish - Gambusia affinis Algae - Pseudokirchneriella subcapitata	96 hours 96 hours
	Acute LC50 44 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

EF-9301 No Clean Flux 25Ltrs

SECTION 12: Ecological information**12.3 Bioaccumulative potential**

Product/ingredient name	LogP _{ow}	BCF	Potential
propan-2-ol	0.05	-	low
cyclohexylamine	1.49	3.162	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : 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 methods**Product**

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of 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)

EF-9301 No Clean Flux 25Ltrs

SECTION 14: Transport information

14.3 Transport hazard class(es)	3 	3 
14.4 Packing group	II	II

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 : At least one component is not listed in EINECS but all such components are listed in ELINCS.
Please contact your supplier for information on the inventory status of this material.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
cyclohexylamine	-	-	-	Repr. 2, H361f (Fertility)

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**

Product/ingredient name	List name	Name on list	Classification	Notes
cyclohexylamine	France Occupational Exposure Limits	cyclohexylamine	Repr. R2	-

Germany

Hazard class for water : 1 Appendix No. 4

Greece**Hungary****Ireland****Italy****Latvia**

EF-9301 No Clean Flux 25Ltrs

SECTION 15: Regulatory informationLithuania

Product/ingredient name	List name	Name on list	Classification	Notes
cyclohexylamine	Lithuania Occupational Exposure Values	cikloheksilaminas	Repro. R	-

Netherlands

Product/ingredient name	List name	Name on list	Classification	Notes
cyclohexylamine	Netherlands Reprotoxic Chemicals	cyclohexylamine	Repro. fertility category 3	-

NorwayPolandPortugalRomaniaSlovakiaSloveniaSpainSwedenSwitzerlandTurkeyUnited Kingdom (UK)**15.2 Chemical Safety
Assessment**

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

SECTION 16: Other information

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revision : 01.09.2015.

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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
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Europe

EF-9301 No Clean Flux 25Ltrs

Full text of abbreviated H statements	: H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. (oral) H312 Harmful in contact with skin. (dermal) H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility. (Fertility) H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1 Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3 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 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3 Repr. 2, H361f (Fertility) TOXIC TO REPRODUCTION (Fertility) - Category 2 Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Full text of abbreviated R phrases	: R11- Highly flammable. R10- Flammable. R62- Possible risk of impaired fertility. R21/22- Harmful in contact with skin and if swallowed. R34- Causes burns. R36- Irritating to eyes. R67- Vapours may cause drowsiness and dizziness. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications [DSD/DPD]	: F - Highly flammable Repr. Cat. 3 - Toxic to reproduction category 3 C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment

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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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