

# IF 8001 SAFETY DATA SHEET



according to Regulation (EC) No. 453/2010 Revision date: 02/06/2014 Supersedes: 10/12/2009 Version: 14.0

1.1. Product identifier	
Product form	: Mixture
Trade name Product code	: IF 8001 No-Clean, Soldering Flux For Selective Soldering : RP8001*, RPPEN8001*
	. RF6001, RFFEN0001
(* All packaging included)	
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Reserved for industrial and professional use.
Use of the substance/mixture	: Selective fluxing applications
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	niatu data abaat
Interflux <sup>®</sup> Electronics N.V.	arety data sneet
Eddastraat 51	
9042 GENT - Belgium	
T +32 9 2514959 - F +32 9 2514970 reach@interflux.com - www.interflux.com	
1.4. Emergency telephone number	
Emergency number	: ++1-703-527-3887 (CHEMTREC)
SECTION 2: Hazards identificati	on
2.1. Classification of the substance	e or mixture
Classification according to Regulation (	EC) no 1272/2008 (CLP)
Flam. Liq. 2 H225	
STOT SE 2 H371	
Full text of H-phrases: see section 16	
Classification according to Directive 67	/548/FFC or 1999/45/FC
F; R11	
Full text of R-phrases: see section 16	
Full text of R-phrases: see section 16 Adverse physicochemical, human healt	h and environmental effects
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Full text of R-phrases: see section 16         Adverse physicochemical, human healt         No additional information available         Other information         NFPA code         2.2.       Label elements         Labelling according to Regulation (EC)	: 2-3-0 : $\overbrace{(1,1)}^{3}$ No. 1272/2008 [CLP] : $\overbrace{(HSO2)}^{CHSO2}$ : Danger : Carbinol : H225 - Highly flammable liquid and vapour
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## P403+P233 - Store in a well-ventilated place. Keep container tightly closed

## 2.3. Other hazards

## No additional information available

SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

2. Mixture			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
Denaturated ethanol	(CAS N°) 64-17-5 (EC N°) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) mixture, not applicable	80 - 90	F; R11
Dicarboxylic acid	(CAS N°) 124-04-9 (EC N°) 204-673-3 (EC index no) 607-144-00-9 (REACH-no) 01-2119457561-38	5 - 10	Xi; R36
Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
ethanol	(CAS №) 64-17-5 (EC №) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	78 - 85	Flam. Liq. 2, H225
Dicarboxylic acid	(CAS N°) 124-04-9 (EC N°) 204-673-3 (EC index no) 607-144-00-9 (REACH-no) 01-2119457561-38	5 - 10	Eye Irrit. 2, H319
carbinol	(CAS N°) 67-56-1 (EC N°) 200-659-6 (EC index no) 603-001-00-X (REACH-no) 01-2119433307-44	< 3	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
2-propanol	(CAS №) 67-63-0 (EC №) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25	<2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

## SECTION 4: First aid measures

4.1.	Description of first aid measure	S
First ai	d measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Vomiting: prevent asphyxia/aspiration pneumonia. Preven cooling by covering the victim (no warming up). Depending on the victim's condition: doctor/hospital.
First ai	d measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First ai	d measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First ai	d measures after eye contact	: Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.
First ai	d measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.
4.2.	Most important symptoms and	effects, both acute and delayed
Sympto	oms/injuries after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.
Sympto	oms/injuries after skin contact	: Slight irritation.
Sympto	oms/injuries after eye contact	: Liquid splashes in the eye may cause irritation.
Sympto	oms/injuries after ingestion	<ul> <li>AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Headache Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Risk of aspiration pneumonia.</li> </ul>
Chroni	c symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

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

No additional information available





SECTION 5: Firefighting measu	Ires
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	<ul> <li>DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.</li> </ul>
Explosion hazard	<ul> <li>DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. may be ignited by sparks. Reactions with explosion hazard see "Reactivity Hazard".</li> </ul>
Reactivity	: Violent to explosive reaction with (strong) oxidizers. Upon combustion CO and CO2 are formed
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: consider evacuation.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed heat.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release	e measures
	tive equipment and emergency procedures
General measures	: Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliand and lighting equipment. Prevent spreading in sewers. Keep containers closed. Wash contaminated clothes.
6.1.1. For non-emergency personne	el
Protective equipment	: Gloves. Protective goggles. protective clothing. Large spills/in enclosed spaces: compressed a apparatus.
Emergency procedures	: Keep upwind. Mark the danger area. Consider evacuation. Stop engines and no smoking. No
0,1	naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.
No additional information available6.2.Environmental precautions	containers closed. Wash contaminated clothes.
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Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources. oxidizing agents. (strong) acids. (strong) bases.
Storage area	: Meet the legal requirements. Store in a cool area. Store in a dry area. Fireproof storeroom.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements.
Packaging materials	: SUITABLE MATERIAL: stainless steel. HDPE drums.

#### 7.3. Specific end use(s)

**REACH Disclaimer:** 

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

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

#### **Control parameters** 8.1.

ethanol (64-17-5)		
Belgium	Limit value (mg/m <sup>3</sup> )	1907 mg/m³
Belgium	Limit value (ppm)	1000 ppm
France	VLE (mg/m <sup>3</sup> )	9500 mg/m³
France	VLE (ppm)	5000 ppm
France	VME (mg/m³)	1900 mg/m³
France	VME (ppm)	1000 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	960 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
The Netherlands	MAC TGG 8H (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
The Netherlands	MAC TGG 8H (ppm)	130 ppm
The Netherlands	MAC TGG 15MIN (mg/m <sup>3</sup> )	1900 mg/m³
The Netherlands	MAC TGG 15MIN (ppm)	950 ppm
United Kingdom	WEL TWA (mg/m³)	1920 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm

#### 8.2. **Exposure controls**

Personal protective equipment

: Gloves. (Nitrile rubber): Recommended thickness: >0.35mm. Protective goggles. Protective clothing. Wear gas mask if conc. in air .



Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: butyl rubber. viton. GIVE GOOD RESISTANCE: neoprene. tetrafluoroethylene. GIVE LESS RESISTANCE: nitrile rubber. polyethylene. GIVE POOR RESISTANCE: natural rubber. PVA. PVC.
Hand protection	: The selected protective gloves must meet the specifications of EU Directive 89/686/EEC and EN 374, derived therefrom.
Eye protection	: Eye protection designed to protect against liquid splashes should be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear gas mask with filter type A if conc. in air > exposure limit.
Other information	: Do no eat, drink or smoke when using this product.

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

9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: Mild odour of aliphatic alcohol.
Odour threshold	: No data available
pH	: 5-5,5
Melting point	: -115 °C
Freezing point	: No data available
Boiling point	: 78 °C





Flash point	: 13 °C
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: 8,3
Flammability (solid, gas)	: No data available
Explosive limits	: 3,3 - 19,0 vol %
Vapour pressure	: 59 hPa
Relative vapour density at 20 °C	: 1,6
Relative density	: 0,845-0,860 g/ml
Solubility	: Water: Partially soluble Ethanol: Soluble
Log Pow	: No data available
Log Kow	: No data available
Self ignition temperature	: 363 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0,0012 Pa.s (20 °C)
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
Other properties	: Gas/vapour heavier than air at 20°C. Clear. Volatile.
SECTION 10: Stability and reactivit	У
10.1. Reactivity	
Violent to explosive reaction with (strong) oxidi	zers. Upon combustion CO and CO2 are formed.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produc	ts
No additional information available	
SECTION 11: Toxicological information	ation
11.1. Information on toxicological effect	
Acute toxicity	: Not classified
IF 8001 No-Clean, Soldering Flux For Sele	ctive Soldering
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 16000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat)
ATE (oral)	5000,000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Charles rooton mitation	pH: 5 - 5,5
Serious eye damage/irritation	: Not classified
	pH: 5 - 5,5
Despiratory or alvin associtientian	· Net close find

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity Reproductive toxicity : Not classified

: Not classified : Not classified

: Not classified

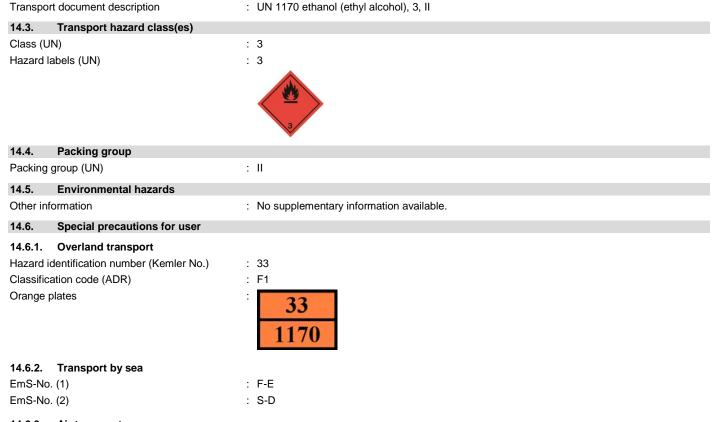




be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the		
SECTION 12: Ecological information         12.1       Toxicity         Ecology - ar       T-Luft Kinsse 5.2.5. Not dangerous for the acone layer (Council Regulation (EC) no 1005/2009).         Ecology - water       : Mid water polutant (surface water). Slightly or not bioaccumulative. Readily biodegradable in water.         IF 8001 No-Clean, Soldering Flux For Selective Soldering       15200 mg/l 68 h. Daphnia magna)         LCS0 fails 1       19300 mg/l 68 h. Salmo gardneri (Docorr)nchus mykiss)         ECS0 Daphnia 2       19800 mg/l 64 h. Daphnia magna)         LCS0 fails 1       19300 mg/l 68 h. Salmo gardneri (Docorr)nchus mykiss)         ECS0 Daphnia 2       19800 mg/l 64 h. Daphnia magna)         LCS0 fails 2       19800 mg/l 64 h. Daphnia magna)         LS2 for Into 2       19800 mg/l 64 h. Daphnia magna)         LS2 for Into 2       19800 mg/l 64 h. Salma magna)         LS2 for Into 2       19800 mg/l 64 h. Salma magna)         LS2 for Into 2       2.1 g Q*g substance         DC0 (s of Tho D)       0.4 SF d TV substance         LO3 Pow       -0.31 (Experimental value)         Beaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).         L3. Other daverse effects       No additional information available         Strike ternision       0.022 N/m (20 °C)         L3. Waste trainformation available		: Not classified
12.1. Toxicity         Ecology - air       : TA.Luft Klasse 5.2.5. Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009).         Ecology - water       : Mid vater pollutant (surface water). Slightly or not bioaccumulative. Readity biodegradable in water.         IF 8001 No-Clean, Soldering Flux For Selective Soldering       Ecology - water         ECS0 Daphria 1       9300 mgl (6 h; Pimephales promelas; Nominal concentration)         ECS0 Daphria 2       10800 mgl (6 h; Pimephales promelas; Nominal concentration)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 2       10800 mgl (24 h; Daphnia magna)         ECS0 Daphria 3       Readity biodegradable in water. Biodegradable in the soil.         Bioaccumulative potential       Readity biodegradable in the soil.         Bioaccumulative potential       Low yody gi substance         EDO (% of ThOD)       0.43 h; ThOO         Edge Ow       0.022 Nm (20 °C)         ESC <t< th=""><th>Aspiration hazard</th><th>: Not classified</th></t<>	Aspiration hazard	: Not classified
Ecology - air       : 1A-Luft Kasse 5.2.5. Not dangerous for the ozone layer (Council Regulation (EC) no         DorS/2009)       : Mild vatare pollutant (surface water). Slightly or not bioaccumulative. Readity biodegradable in water.         IF 8001 No-Clean, Soldering Flux For Selective Soldering	SECTION 12: Ecological informat	lion
1005/2009,     1005/2009,       Eroldy - water     1005/2009,       IF 6001 No-Clean, Soldering Flux For Selective Soldering     14200 mg/l (64 h; Daphnia magna)       LCS0 fishes 1     14200 mg/l (64 h; Daphnia magna)       LCS0 fishes 2     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 3     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 4     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 5     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 6     Notice 5       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 7     10800 mg/l (24 h; Daphnia magna)       LCS0 fishes 1     1.70 g O/g substance       DOD 0     2.10 g O/g substance       BOD (% of HoD)     0.43 % ThOD       LCS0 Fishes 1     0.021 (Experimental value)       Bioaccumulative potential     Low potential lor bioaccumulation (Log Kow < 4).	12.1. Toxicity	
IF 8001 No-Clean, Soldering Flux For Selective Soldering         LCS0 fishes 1       14200 mg/l (96 h; Pimephales promelas; Nominal concentration)         ECS0 Daphnia 1       9300 mg/l (46 h; Daphnia magna)         LCS0 fishe 2       13000 mg/l 86 h; Salmo gaitemide (Oncorthynchus mykiss)         ECS0 Daphnia 2       10800 mg/l (24 h; Daphnia magna)         TS001 No-Clean, Soldering Teux For Selective Soldering       Fereine (Oncorthynchus mykiss)         F8001 No-Clean, Soldering Teux For Selective Soldering       Fereine (Oncorthynchus mykiss)         F8001 No-Clean, Soldering Teux For Selective Soldering       Fereine (Oncorthynchus mykiss)         Biochemical oxygen demand (COD)       1,70 g O/g substance       Chemical oxygen demand (COD)         ThOD       Q.13 0 XF NOD       Q.43 W ThOD       Chemical oxygen demand (COD)         Bloaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	Ecology - air	
LCS0 fishes 1       14200 mg/l (96 h; Pimephales promelas; Nominal concentration)         ECS0 Daphnia 1       9300 mg/l (24 h; Daphnia magna)         LCS0 fish 2       10000 mg/l (24 h; Daphnia magna)         ECS0 Daphnia 2       10000 mg/l (24 h; Daphnia magna)         ECS0 Daphnia 2       10000 mg/l (24 h; Daphnia magna)         ECS0 Daphnia 2       10000 mg/l (24 h; Daphnia magna)         ECS0 Daphnia 2       10000 mg/l (24 h; Daphnia magna)         ECS0 Daphnia 2       10000 mg/l (24 h; Daphnia magna)         ECS0 Daphnia 2       10000 mg/l (24 h; Daphnia magna)         F8001 NoClean, Soldering FUK FOr Selective Soldering       Fersitence and degradability         Readity biodsgradable in water, Biodegradable in the soil.       Biochemical oxygen demand (COD)         Dichemical oxygen demand (COD)       1.70 g O/g substance         BOD (% of ThOD)       0.43 % ThOD         Edsaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	Ecology - water	
EC50 Daphnia 1     9300 mg/l (48 h; Daphnia magna)       LC50 fish 2     13000 mg/l (48 h; Daphnia magna)       EC50 Daphnia 2     13000 mg/l (48 h; Daphnia magna) <b>12.2.</b> Persistence and degradability     Readily biodegradable in water. Biodegradable in the soil.       Biochemical oxygen demand (BOD)     0.8 - 0.867 g O'g substance       Chemical oxygen demand (BOD)     0.8 - 0.867 g O'g substance       Chemical oxygen demand (COD)     1.70 g O'g substance       Chemical oxygen demand (COD)     0.43 % ThOD       E300 (fe of ThOD)     0.43 % ThOD <b>12.3.</b> Bioaccumulative potential     Low potential for bioaccumulation (Log Kow < 4).	IF 8001 No-Clean, Soldering Flux For Se	ective Soldering
LC50 Ish 2       13000 mg/l 64 h; Samo gairdneri (Oncorhynchus mykiss)         EC50 Daphnia 2       13000 mg/l (24 h; Daphnia magna)         122. Persistence and degradability       Readily biodegradable in water. Biodegradable in the soil.         Biochemical ovegen demand (RCD)       0, 8 - 0, 67 Q/9 substance         Chemical ovegen demand (RCD)       0, 43 - 0, 67 Q/9 substance         DOD (% of ThOD)       2,10 g O/9 substance         BOD (% of ThOD)       0, 43 % ThOD         Etaalo (44-17-5)       Log Pow         Log Pow       -0,31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	LC50 fishes 1	14200 mg/l (96 h; Pimephales promelas; Nominal concentration)
ECS0 Daphnia 2       10800 mg/l (24 h; Daphnia magna)         12.2. Persistence and degradability       Readily biodegradable in water. Biodegradable in the soll.         Biochemical oxygen demand (BOD)       0.8 - 0.967 g OYg substance         Chemical oxygen demand (BOD)       0.8 - 0.967 g OYg substance         Chemical oxygen demand (BOD)       0.4 - 0.967 g OYg substance         BOD (% of ThOD)       0.43 % ThOD         Extance (64-17-5)       Log POW         Log POW       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)
12.2. Persistence and degradability         IF 6001 No-Clean, Soldering Flux For Selective Soldering         Persistence and degradability       Readily biodegradable in water. Biodegradable in the soil.         Biochemical oxygen demand (BOD)       0.8 - 0.967 g O'g substance         Chemical oxygen demand (BOD)       0.4 - 0.967 g O'g substance         BOD (% of ThOD)       2,10 g O'g substance         BOD (% of ThOD)       0,43 % ThOD         12.3. Bioaccumulative potential       Ethanol (64:17-5)         Log Pow       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
IF 8001 No-Clean, Soldering Flux For Selective Soldering         Persistence and degradability       Readily biodegradable in water. Biodegradable in the soil.         Biochemical oxygen demand (BOD)       0.8 - 0.87 g O/9 g substance         Chemical oxygen demand (BOD)       2.10 g O/9 g substance         BOD (% of ThOD)       0.43 % ThOD         17.0 J       2.10 g O/9 g substance         BOD (% of ThOD)       0.43 % ThOD         12.3. Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)
Persistence and degradability       Readily biodegradable in water. Biodegradable in the soil.         Biochemical oxygen demand (BOD)       0.8 - 0.967 g OYg substance         Chemical oxygen demand (CD)       1.70 g OYg substance         BOD (% of ThOD)       0.43 % ThOD         21.3. Bioaccumulative potential       Ethanol (64-17-5)         Log Pow       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	12.2. Persistence and degradability	
Persistence and degradability       Readily biodegradable in water. Biodegradable in the soil.         Biochemical oxygen demand (BOD)       0.8 - 0.967 g O/g substance         Chemical oxygen demand (COD)       1.70 g O/g substance         BOD (% of ThOD)       0.43 % ThOD         21.3. Bioaccumulative potential       Ethanol (64-17-5)         Log Pow       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).	IF 8001 No-Clean, Soldering Flux For Se	ective Soldering
Biochemical oxygen demand (BOD)       0.8 - 0.967 g O'g substance         Chemical oxygen demand (COD)       1,70 g O'g substance         BDD (% of ThOD)       2,10 g O'g substance         BDD (% of ThOD)       0.43 % ThOD         12.3. Bioaccumulative potential       ethanol (64-17-5)         Log Pow       -0,31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).		
Chemical oyxgen demand (COD)       1.70 g O <sup>2</sup> /g substance         ThOD       2.10 g O <sup>2</sup> /g substance         BOD (% of ThOD)       0.43 % ThOD         12.3. Bioaccumulative potential       -0.31 (Experimental value)         Bioaccumulative potential       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).		
ThOD       2,10 g OV/g substance         BOD (% of ThOD)       0,43 % ThOD         21.3. Bioaccumulative potential       image: state st		
BOD (% of ThOD)       0,43 % ThOD         12.3. Bioaccumulative potential       ethanol (64-17-5)         Log Pow       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).		
12.3. Bioaccumulative potential         ethanol (64-17-5)         Log Pow       -0.31 (Experimental value)         Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).		
ethanol (64-17-5)       0.31 (Experimental value)         Bicaccumulative potential       Low potential for bicaccumulation (Log Kow < 4).		0,40,0,1100
Log Pow       -0,31 (Experimental value)         Bicaccumulative potential       Low potential for bicaccumulation (Log Kow < 4).	12.3. Bioaccumulative potential	
Log Pow       -0,31 (Experimental value)         Bicaccumulative potential       Low potential for bicaccumulation (Log Kow < 4).	ethanol (64-17-5)	
Bioaccumulative potential       Low potential for bioaccumulation (Log Kow < 4).		-0.31 (Experimental value)
12.4.       Mobility in soil         ethanol (64-17-5)         Surface tension       0,022 N/m (20 °C)         12.5.       Results of PBT and vPvB assessment         No additional information available       0.022 N/m (20 °C)         12.6.       Other adverse effects         No additional information available       0.022 N/m (20 °C)         12.6.       Other adverse effects         No additional information available       0.022 N/m (20 °C)         SECTION 13: Disposal considerations       13.1.         Waste treatment methods       Regional legislation (waste)         Regional legislation (waste)       :         Vaste disposal recommendations       :         Waste disposal recommendations       :         Waste disposal recommendations       :         Regional legislation (waste)       :         Disposal must be done according to official regulations.       Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not discharge into surface water. for solvents waste. Hazardous waste shall be managed responsibly. All entities that store, transport or hazardous waste shall be managed responsibly. All enthiorized waste incinerator for solvents waste m		
No additional information available          12.6.       Other adverse effects         No additional information available         SECTION 13: Disposal considerations         13.1.       Waste treatment methods         Regional legislation (waste)       : Disposal must be done according to official regulations.         Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste of or contaminated by. dangerous substances.         SECTION 14: Transport information       Intro         In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	ethanol (64-17-5)	0,022 N/m (20 °C)
No additional information available          12.6.       Other adverse effects         No additional information available         SECTION 13: Disposal considerations         13.1.       Waste treatment methods         Regional legislation (waste)       : Disposal must be done according to official regulations.         Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	12 E Depute of PPT and vPvP acces	
12.6. Other adverse effects         No additional information available         SECTION 13: Disposal considerations         13.1. Waste treatment methods         Regional legislation (waste)       : Disposal must be done according to official regulations.         Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1. UN number       UN-No       : 1170         14.2. UN proper shipping name       : 1170		sment
No additional information available  SECTION 13: Disposal considerations  13.1. Waste treatment methods Regional legislation (waste) : Disposal must be done according to official regulations. Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation. Ecology - waste materials : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances. SECTION 14: Transport information In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA 14.1. UN number UN-No : 1170 14.2. UN proper shipping name		
SECTION 13: Disposal considerations         13.1. Waste treatment methods         Regional legislation (waste)       : Disposal must be done according to official regulations.         Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	12.6. Other adverse effects	
13.1.       Waste treatment methods         Regional legislation (waste)       : Disposal must be done according to official regulations.         Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	No additional information available	
Regional legislation (waste)       : Disposal must be done according to official regulations.         Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	<b>SECTION 13: Disposal considera</b>	tions
Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	13.1. Waste treatment methods	
Waste disposal recommendations       : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.         Ecology - waste materials       : Other organic solvents, washing liquids and mother liquors. LWCA (the Netherlands): KGA category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information       In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name	Regional legislation (waste)	: Disposal must be done according to official regulations.
category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging containing residues of or contaminated by. dangerous substances.         SECTION 14: Transport information         In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA         14.1.       UN number         UN-No       : 1170         14.2.       UN proper shipping name		: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of th waste. Hazardous waste shall be managed responsibly. All entities that store, transport or hand hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to
In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA 14.1. UN number UN-No : 1170 14.2. UN proper shipping name	Ecology - waste materials	category 03. Hazardous waste (91/689/EEC). Do not discharge into surface water. Packaging
14.1.     UN number       UN-No     : 1170       14.2.     UN proper shipping name	<b>SECTION 14: Transport informati</b>	on
UN-No : 1170 14.2. UN proper shipping name	In accordance with ADR / RID / ADNR / IMD	OG / ICAO / IATA
14.2. UN proper shipping name	14.1. UN number	
	UN-No	: 1170
	14.2. UN proper shipping name	
		: ethanol (ethyl alcohol)







## 14.6.3. Air transport

No additional information available

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional rules to be obtained at Interflux® Electronics NV

Remark:

Above mentioned regulations are in force at the moment of publication of this (SDS) safety data sheet. With reference to possible modifications in transport regulations of dangerous goods, we advise you to verify its validity at Interflux® Electronics NV.

## **SECTION 15: Regulatory information**

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

Contains no REACH candidate substance	
EURAL code	: 14 06 03*, 15 01 10*
15.1.2. National regulations	
Water hazard class (WGK)	: 1 - slightly hazardous to water
WGK remark	: Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005
Storage class (LGK)	: LGK 3A - Flammable liquid materials (Flashpoint < 55 °C)
VbF class	: B - Liquids with a flashpoint below 21°C, but soluble in water at 15°C or flammable ingredients that are soluble in water at 15°C

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this preparation were carried out

SECTION 16: Other information			
Other information		: Intrastat code 3810 90 90.	
Full text of R-, H- and EUH-phrases::			
	Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
	Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	





Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
STOT SE 1	Specific target organ toxicity — single exposure, Category 1	
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H225	Highly flammable liquid and vapour	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H319	Causes serious eye irritation	
H331	Toxic if inhaled	
H336	May cause drowsiness or dizziness	
H370	Causes damage to organs	
H371	May cause damage to organs	
R11	Highly flammable	
R36	Irritating to eyes	
F	Highly flammable	
Xi	Irritant	

### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

## DISCLAIMER

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. The products discussed are sold without such warranty, either expressed or implied.

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