

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

1.1. Product identifier

Product form : Mixtures
Trade name : BGA Gel Fluxes IF 8300 series, IF 8300, IF 8300-4, IF 8300-6
Product code : RP8300*, RP8300-4, RP8300-6
(* 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 : Rework gel flux

Title	Use descriptors
Industrial uses: Uses of substances as such or in preparations* at industrial sites	SU3, SU10, PC38

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Interflux® Electronics N.V.
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 identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008 (CLP)

Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317

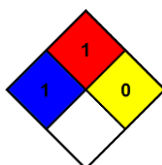
Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Other information

NFPA-code : 1-1-0
:



2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of water



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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Other hazards not contributing to the classification : This product may become hazardous in use and the information in this data sheet reflects the hazards associated with solder operations. During soldering operations: Work under local exhaust/ventilation.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
Thermoplastic resins	(CAS N°) 8050-09-7 (EC N°) 232-475-7 (EC Index No) 650-015-00-7 (REACH-no) 01-2119480418-32	15 - 20	Skin Sens. 1, H317
Terpineol, mixture of isomers	(CAS N°) 8000-41-7 (EC N°) 232-268-1 (REACH-no) 01-2119553062-49	15 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319
di-carboxylic 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

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First aid measures after inhalation : Respiratory problems: consult a doctor/medical service.
First aid measures after skin contact : After contact with skin, wash immediately with plenty of warm water and soap.
First aid measures after eye contact : Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.
First aid measures after ingestion : Do not induce vomiting. Ingestion is not considered a potential route of exposure. Consult a doctor/medical service if you feel unwell.

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

Symptoms/injuries after inhalation : Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.
Symptoms/injuries after skin contact : Classified as a skin sensitizer.
Symptoms/injuries after eye contact : Irritation of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Redness of the eye tissue.
Symptoms/injuries after ingestion : AFTER ABSORPTION OF HIGH QUANTITIES: Gastrointestinal complaints.

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder. Carbon dioxide. Foam.
Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None.



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- Explosion hazard : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.
- Reactivity : On burning: release of (carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
- Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Prevent spreading in sewers.

6.1.1. For non-emergency personnel

- Protective equipment : Gloves. protective clothing. Protective goggles. Wash hands immediately after handling the product.

6.1.2. For emergency responders

- Protective equipment : Refer to section 6.1.1.

6.2. Environmental precautions

Do not discharge into drains or the environment. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean contaminated surfaces with alcohol or a soap solution. Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Vapours produced during soldering operations.
- Precautions for safe handling : Avoid prolonged and repeated contact with skin. Work under local exhaust/ventilation.
- Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Maximum storage period : 2 year
- Storage temperature : 5 - 35 °C
- Storage area : Store in a cool area. Keep container in a well-ventilated place. Keep out of direct sunlight.

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

8.1. Control parameters

Thermoplastic resins (8050-09-7)		
France	VME (mg/m ³)	0.1 mg/m ³ (produits de décomposition des baguettes de soudure, exprimés en aldéhyde formique); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
United Kingdom	WEL TWA (mg/m ³)	0.05 mg/m ³ solder flux fume; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	0.15 mg/m ³ solder flux fume; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Protective clothing.



Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: nitrile rubber. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.

Hand protection : nitrile rubber gloves. The selected protective gloves must meet the specifications of EU Directive 89/686/EEC and EN 374, derived therefrom. Gloves: Recommended thickness: >0.11mm.

Eye protection : Safety glasses with side shields.

Respiratory protection : By application of the gel there is no overexposure risk. During soldering operations: Local exhaust is needed at source of vapours.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: gel
Appearance	: Viscous.
Colour	: Light yellow to amber.
Odour	: Mild odour. Sweet odour.
Odour threshold	: No data available
pH	: No data available
pH 5 % aq. solution	: 3
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 134°C-160°C (TCC)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: < 1 mbar
Relative vapour density at 20 °C	: No data available
Relative density	: 1.013g/ml - 1.032g/ml
Solubility	: Water: Insoluble
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: > 370 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

VOC content : 47.9 %

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of (carbon monoxide - carbon dioxide).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

All heat sources, including direct sunlight. Temperatures below 5°C.

10.5. Incompatible materials

Keep away from reducing agents/(strong) acids /(strong) bases. Keep away from sparks/open flames.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Thermoplastic resins (8050-09-7)

LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
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terpineol, mixture of isomers (8000-41-7)

LD50 oral rat	> 4300 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >2000 mg/kg bodyweight; Rat)
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LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
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LC50 inhalation rat (mg/l)	> 4.76 mg/l/4h (Rat)
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Mild water pollutant (surface water)
Slowly biodegradable in water

Thermoplastic resins (8050-09-7)

LC50 fish 1	< ≥ 1 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)
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EC50 Daphnia 1	911 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
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terpineol, mixture of isomers (8000-41-7)

EC50 Daphnia 1	73 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
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LC50 fish 2	62-80,LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Danio rerio; Semi-static system; Fresh water; Experimental value
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12.2. Persistence and degradability

BGA Gel Fluxes IF 8300 series, IF 8300, IF 8300-4, IF 8300-6

Persistence and degradability	Readily biodegradable in water.
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Thermoplastic resins (8050-09-7)

Persistence and degradability	Readily biodegradable in water. Highly mobile in soil.
Chemical oxygen demand (COD)	2.6 g O ₂ /g substance

terpineol, mixture of isomers (8000-41-7)

Persistence and degradability	Readily biodegradable in water. Highly mobile in soil. Photodegradation in the air.
ThOD	2.9 g O ₂ /g substance

12.3. Bioaccumulative potential

BGA Gel Fluxes IF 8300 series, IF 8300, IF 8300-4, IF 8300-6

Bioaccumulative potential	Not bioaccumulative.
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Thermoplastic resins (8050-09-7)

BCF other aquatic organisms 1	56.2 (BCF; BCFBAF v3.00)
Log Pow	1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

terpineol, mixture of isomers (8000-41-7)

Log Pow	2.57 (Estimated value; 2.6; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 30 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

BGA Gel Fluxes IF 8300 series, IF 8300, IF 8300-4, IF 8300-6

Ecology - soil	According to literature, degradable in the soil.
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Thermoplastic resins (8050-09-7)

Surface tension	0.078 N/m (20 °C)
Log Koc	log Koc, SRC PCKOCWIN v2.0; 0.8759; QSAR

terpineol, mixture of isomers (8000-41-7)

Log Koc	Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method; >=28.8<=50.9; Experimental value; GLP
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12.5. Results of PBT and vPvB assessment

BGA Gel Fluxes IF 8300 series, IF 8300, IF 8300-4, IF 8300-6

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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.
Product/Packaging 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 the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. In authorized incinerator equipped with flue gas scrubber with energy recovery. Do not discharge into the sewer. Do not discharge into surface water.
Ecology - waste materials	: Remove to an authorized incinerator. Do not discharge into the sewer. Do not discharge into surface water.
EURAL code	: 14 06 03* - other solvents and solvent mixtures 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN



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14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA)	: Not applicable
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ADN

Transport hazard class(es) (ADN)	: Not applicable
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RID

Transport hazard class(es) (RID)	: Not applicable
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14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: Class : not regulated

14.6. Special precautions for user

Special transport precautions	: Class : not regulated
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- Overland transport

Transport regulations (ADR)	: Not subject
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- Transport by sea

Transport regulations (IMDG)	: Not subject
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- Air transport

Transport regulations (IATA)	: Not subject
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- Inland waterway transport

No data available

- Rail transport

Transport regulations (RID) : Not subject

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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 substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 47.9 %

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BImSchV

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 H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
PC38	Welding and soldering products, flux products
SU10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites

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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