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

1.1. Product identifier

Product name : ECOFREC VLR 129

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

1.2.1 Relevant identified uses : Flux for the soldering of electronic components on printed circuit boards

1.3. Details of the supplier of the safety data sheet : INVENTEC PERFORMANCE CHEMICALS SA
20 rue de Bourgogne
BP 211

69802 SAINT-PRIEST Cedex France
Tel : +33 (0) 4 72 28 13 00
Fax : +33 (0) 4 72 28 13 41

DISTRIBUTOR : SPAIN: Perez Pujol, 4 - 2° 46002 Valencia - Tel : (34) 96 353 51 93.
ITALIA: Via Pusterla, 8 - I - 20013 Magenta - Milano - Tel : (39) 02 48 40 12 06.
GERMANY: Robert-Bosch-Str.14 D 40668 Meerbusch - Tel : +49 (0)21 50 70 73 00.
SUISSE: Z.I. Petits Champs 15 CH-1400 Yverdon-les-Bains - Tel : +41(0) 24 424 80 90
HUNGARY: Climalife Kft. 1118 Budapest, Villányi út 47 - Tel: (36) 23 431 660.
NEDERLAND: Van Konijnenburgweg 84 NL-4612PL Bergen op zoom- Tel : (31) 164 212 840

e-mail : ContactFDS@inventec.dehon.com

1.4 Emergency telephone number : EMERGENCY TELEPHONE NUMBER (24h/24) : + 33 (0) 1 72 11 00 03
Anti-poison Center : INRS/ORFILA (France) : +33 (0) 1 45 42 59 59
Anti-poison Centre (Belgium) : +32 70 245 245
Anti-poison Centre (Netherlands) : +31 30 274 8888
Anti-poison Centre (Spain) : +34 91 562 04 20
Anti-poison Centre (United Kingdom) : +44 870 600 6266
Poisons Information Centre (Hungary) : +36 80 201 199
Anti-poison Centre (Switzerland) : 145 (from Switzerland) or +41 44 251 51 51

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Regulation (EC) No 1272/2008 (CLP)

Physical hazards : Flammable liquids - Category 2- (Flam. Liq. 2) - H225

Health hazards : Eye irritation - Category 2 (Eye Irrit. 2) - H319
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 (STOT SE 3) ; H336

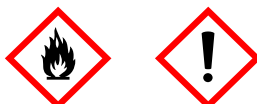
2.1.2 Directive EEC/67/548 or 1999/45/CE : F; R11
R67
Xi; R36/38

2.2. Label elements

2.2.1 Labelling EC 1272/2008 (CLP)

Contains : Isopropanol
Butane-1,4-diol
N-butyl acetate

Hazard pictograms



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SECTION 2 Hazards identification (continued)

Signal words	: Danger
Hazard statements	: H225 : Highly flammable liquid and vapour H319 : Causes serious eye irritation H336 : May cause drowsiness or dizziness
Precautionary statements :	
• Prevention	: P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 : Keep container tightly closed P261 : Avoid breathing dust/fume/gas/mist/vapours/spray. P280 : Wear protective gloves/protective clothing/eye protection/face protection.
• Response	: P309 + P311 : IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
• Storage	: P403 + P235 : Store in a cool and well-ventilated place.
2.3. Other hazards	: None under normal conditions

SECTION 3 Composition/information on ingredients


3.1./3.2. Substance / Preparation : Preparation

Components contributing to the hazard :

Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
Propan-2-ol	> 80 %	67-63-0	200-661-7	603-117-00-0	01-2119457558-25	F; R11 R67 Xi; R36 ----- Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE3; H336
n-Butyl acetate	< 5 %	123-86-4	204-658-1	607-025-00-1	01-2119485493-29	R10 R66 R67 ----- Flam. Liq. 3;H226 STOT SE3; H336 EUH066
butane-1,4-diol	< 5 %	110-63-4	203-786-5	-----	01-2119471849-20	Xn; R22 ----- Acute Tox. 4 (Oral);H302
Succinic acid	< 2 %	110-15-6	203-740-4	-----	01-2119896114-34	Xi; R41 ----- Eye Dam. 1;H318
2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl ester, telomer with 3-mercapto-1,2-propanediol, 2-methyloxirane polymer with oxirane di-2-propenoate, and 2-methyloxirane polymer with oxirane mono-2-propenoate, tert-Bu 2-ethylhexaneperoxoate-initiated	< 0.5 %	1017237-78-3	---	-----	----	N; R51-53 ----- Aquatic Chronic 2;H411

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SECTION 4 First aid measures

4.1. Description of first aid measures

- Inhalation** : IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
- Skin contact** : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If case of redness or irritation, call a doctor
- Eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
- Ingestion** : Never attempt to induce vomiting
Rinse mouth out with water
Call a doctor immediately
If possible show him this sheet. Failing this, show him the packaging or label

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

- Inhalation** : Moderate narcotic effect, headaches, nausea
Dizziness
Drowsiness
- Skin contact** : Drying up of the skin
- Eye contact** : Watering of the eyes
- Ingestion** : Dizziness, headaches, drop in blood pressure, nausea

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

- : No information available

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media** : Water spray
Carbon dioxide (CO₂)
Alcohol-resistant foam
Powders

- Unsuitable extinguishing media** : Strong water jet

5.2. Special hazards arising from the substance or mixture


- Specific hazards** : Flammable
Not classified as explosive according to EC criteria, but may present risks in the event of a fire

5.3. Advice for firefighters

- Specific fire fighting methods** : Spray from a distance to keep far away from any possible explosion
Do not attempt to fight the fire without suitable protective equipment
- Protection of fire-fighters** : For further information refer to section 8 "Exposure controls/personal protection"

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SECTION 6 Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures** : No flames, No sparks. Eliminate all sources of ignition
Do not breathe vapours
Personal protective equipment :
- full impermeable protective equipment
- 6.2. Environmental precautions** : Contain the spilled material by bunding
Do not discharge into drains (explosive hazard)
- 6.3. Methods and material for containment and cleaning up**
- **Recovery** : Collect up the product and place it in a spare container:
- suitably labelled
Keep recovered product for subsequent disposal
 - **Neutralization** : If recovery is impossible or if the pools are too small, absorb with :
- earth or sand
Do not absorb with saw-dust or any other combustible absorbent material
 - **Cleaning/decontamination** : Wash contaminated area with large amounts of water
 - **Disposal** : Dispose of contaminated materials in accordance with current regulations.
Do not discharge into drains
- 6.4 Reference to other sections** : For further information refer to section 8 "Exposure controls/personal protection"

SECTION 7 Handling and storage

- 7.1. Precautions for safe handling**
- Technical measures** : Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/... equipment.
Use only non-sparking tools
Take precautionary measures against static discharge
Use only outdoors or in a well-ventilated area
Vapour extraction at source
Install a retention tank.
- Precautions** : Do not use compressed air to transfer, discharge or transport the product
- Industrial hygiene** : Always wash your hands immediately after handling this product, and once again before leaving the workplace
Do not drink, eat or smoke in the workplace
- 7.2. Conditions for safe storage, including any incompatibilities**
- Technical measures** : The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside
- Storage conditions**
- **Recommended** : Store in a well-ventilated place. Keep container tightly closed
Store :
- protected from humidity
- protected from heat
- Incompatible products** : Mineral acids
Strong oxidizing agents
- Packaging materials**
- **Recommended** : Polyethylene
 - **Not suitable** : PVC
Aluminium and its alloys
Rubbers

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SECTION 7 Handling and storage (continued)

7.3. Specific end use(s) : No data

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational Exposure Limits : Propan-2-ol : France : LEP - VLE (15min; mg/m³) : 980
 Propan-2-ol : France : LEP - VLE (15min; ppm) : 400
 Propan-2-ol : Germany : MAK - TWA (8h; mg/m³) : 500
 Propan-2-ol : Germany : MAK - TWA (8h; ppm) : 200
 Propan-2-ol : Germany : MAK - STEL (15min; mg/m³) : 1000
 Propan-2-ol : Germany : MAK - STEL (15min; ppm) : 400
 Propan-2-ol : Hungary : AK - TWA (8h; mg/m³) : 500
 Propan-2-ol : Hungary : AK - STEL (15min; mg/m³) : 2000
 Propan-2-ol : Belgium : GWBB - TWA (8h; mg/m³) : 500
 Propan-2-ol : Belgium : GWBB - TWA (8h; ppm) : 200
 Propan-2-ol : Belgium : GWBB - STEL (15min; mg/m³) : 1000
 Propan-2-ol : Belgium : GWBB - STEL (15min; ppm) : 400
 Propan-2-ol : USA (NIOSH) : REL - TWA (8h; mg/m³) : 980
 Propan-2-ol : USA (NIOSH) : REL - TWA (8h; ppm) : 400
 Propan-2-ol : USA (NIOSH) : REL - STEL (15min; mg/m³) : 1225
 Propan-2-ol : USA (NIOSH) : REL - STEL (15min; ppm) : 500
 Propan-2-ol : Switzerland : LEP - VME (8h; mg/m³) : 500
 Propan-2-ol : Switzerland : LEP - VME (8h; ppm) : 200
 Propan-2-ol : Switzerland : LEP - VLE (15min; mg/m³) : 1000
 Propan-2-ol : Switzerland : LEP - VLE (15min; ppm) : 400
 n-Butyl acetate : France : LEP - VME (8h; mg/m³) : 710
 n-Butyl acetate : France : LEP - VME (8h; ppm) : 150
 n-Butyl acetate : France : LEP - VLE (15min; mg/m³) : 940
 n-Butyl acetate : France : LEP - VLE (15min; ppm) : 200
 n-Butyl acetate : United Kingdom : WEL - TWA (8h; mg/m³) : 724
 n-Butyl acetate : United Kingdom : WEL - TWA (8h; ppm) : 150
 n-Butyl acetate : United Kingdom : WEL - STEL (15min; mg/m³) : 966
 n-Butyl acetate : United Kingdom : WEL - STEL (15min; ppm) : 200
 n-Butyl acetate : Germany : MAK - TWA (8h; mg/m³) : 480
 n-Butyl acetate : Germany : MAK - TWA (8h; ppm) : 100
 n-Butyl acetate : Germany : MAK - STEL (15min; ppm) : 200
 n-Butyl acetate : Germany : TRK - STEL (15min; mg/m³) : 960
 n-Butyl acetate : Hungary : AK - TWA (8h; mg/m³) : 950
 n-Butyl acetate : Hungary : AK - STEL (15min; mg/m³) : 950
 n-Butyl acetate : Belgium : GWBB - TWA (8h; mg/m³) : 723
 n-Butyl acetate : Belgium : GWBB - TWA (8h; ppm) : 150
 n-Butyl acetate : Belgium : GWBB - STEL (15min; mg/m³) :
 n-Butyl acetate : Belgium : GWBB - STEL (15min; ppm) : 200
 n-Butyl acetate : USA (OSHA) : PEL - TWA (8h; mg/m³) : 710
 n-Butyl acetate : USA (OSHA) : PEL - TWA (8h; ppm) : 150
 n-Butyl acetate : Switzerland : LEP - VME (8h; mg/m³) : 480
 n-Butyl acetate : Switzerland : LEP - VME (8h; ppm) : 100
 n-Butyl acetate : Switzerland : LEP - VLE (15min; mg/m³) : 960
 n-Butyl acetate : Switzerland : LEP - VLE (15min; ppm) : 200
 butane-1,4-diol : Germany : MAK - TWA (8h; mg/m³) : 200
 butane-1,4-diol : Germany : TRK - TWA (8h; ppm) : 50

8.2. Exposure controls

Personal protection :

- Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment
 In the event of insufficient ventilation:
 Mask with A canister

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SECTION 8 Exposure controls/personal protection (continued)

- Hand protection : Nitrile-rubber protective gloves
- Eye protection : Safety spectacles with side shields
- Skin protection : Majority cotton clothing
- Collective emergency equipments : Safety shower
Eye fountain

SECTION 9 Physical and chemical properties
9.1. Information on basic physical and chemical properties
9.1.a. Appearance

- Physical state : Liquid
- Colour : Colourless
- 9.1.b. Odour : characteristic
- 9.1.c. Odour threshold : No information available
- 9.1.d. pH : Not applicable
- 9.1.e. Melting point / Freezing point : - 89.5°C
- 9.1.f. Initial boiling point - boiling range : + 82 °C
- 9.1.g. Flash point : + 16 °C (Closed cup)
- 9.1.h. Evaporation rate : No data
- 9.1.i. Flammability : Highly flammable liquid and vapour
- 9.1.j. Explosion limits (lower - upper)
- Explosion limits - lower : 2 % (volume)
- Explosion limits - upper : 12 % (volume)
- 9.1.k. Vapour pressure : 42 mbars (hPa) at 20 °C
- 9.1.l. Vapour density : 2
- 9.1.m. Density : 0,8 g/cm³ at 20 °C
- 9.1.n. Solubility
- in water : Partially soluble
- in organic solvents : Soluble in :
- common solvents
- 9.1.o. Partition coefficient : n-octanol / water : Propan-2-ol : 0.05
- 9.1.p. Auto-ignition temperature : +425°C
- 9.1.q. Thermal decomposition : No data
- 9.1.r. Viscosity : No data
- 9.1.s. Explosive Properties : Not explosive material according to EC criteria
Can form explosive mixtures with air
- 9.1.t. Oxidising properties : Non oxidizing material according to EC criteria
- 9.2. Other information

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SECTION 10 Stability and reactivity

- 10.1. Reactivity : No information available
- 10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use
- 10.3. Possibility of hazardous reactions : May form flammable vapour-air mixtures.
Exothermic reaction with acids.
- 10.4. Conditions to avoid : May ignite :
- on contact with hot surfaces and flames
- 10.5. Incompatible materials : - mineral acids
- nitro-compounds
- alkaline earth metals.
- alkali metals
- strong oxidizing agents
- 10.6. Hazardous decomposition products : On thermal decomposition (pyrolysis), releases :
Carbon oxides (CO, CO2)
Peroxides

SECTION 11 Toxicological information

- 11.1. Information on toxicological effects
- Acute toxicity : No information available
- On ingredients
- 2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl ester, telomer with 3-mercapto-1,2-propanediol, 2-methyloxirane polymer with oxirane di-2-propenoate, and 2-methyloxirane polymer with oxirane mono-2-propenoate, tert-Bu 2-ethylhexaneperoxoate-initiated : Rat dermal LD50 [mg/kg] : 2000
- Succinic acid : Rat oral LD50 [mg/kg] : 2000
: Rat oral LD50 [mg/kg] : 2260
: Rat inhalation LC50 [mg/l/4h] : 1284
- butane-1,4-diol : Rat oral LD50 [mg/kg] : 1525
- n-Butyl acetate : Rat oral LD50 [mg/kg] : 13100
: Rabbit dermal LD50 [mg/kg] : > 17600
: Rat inhalation LC50 [mg/l/4h] : > 21
- Propan-2-ol : Rat oral LD50 [mg/kg] : 4710
: Rabbit dermal, LD50 [mg/kg] : 12870
: Rat inhalation LC50 [mg/l/4h] : > 20
- Skin corrosion/irritation : No information available
 - Serious eye damage/irritation : Causes serious eye irritation
 - Respiratory or skin sensitisation : No information available
 - Germ cell mutagenicity : No information available
 - Carcinogenicity : No information available
 - Reproductive toxicity : No information available
 - STOT-single exposure : May cause drowsiness or dizziness
 - STOT-repeated exposure : No information available

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SECTION 11 Toxicological information (continued)

• Aspiration hazard : No information available

SECTION 12 Ecological information

 12.1. Toxicity : No information available
 Do not allow product to spread into the environment

On ingredients

2-Propenoic acid, 2-[methyl[(1,1,2,2,3,3,3,4,4,4-nonafluorobutyl)sulfonyl]amino]ethyl ester, telomer with 3-mercapto-1,2-propanediol, 2-methyloxirane polymer with oxirane di-2-propenoate, and 2-methyloxirane polymer with oxirane mono-2-propenoate, tert-Bu 2-ethylhexaneperoxoate-initiated

 : 72 Hours - EC50 - Algae [mg/l] : 0.62 to 3.24 (diatom)
 : 96 Hours - LC50 - Fish (Pimephales Promelas) [mg/l] : 765
 : 48 Hour - EC50 - Daphnia magna [mg/l] : 100
 : 72 Hours - EC50 - Algae (Pseudokirchneriella subcapitata) [mg/l] : 100
 : 96 Hours - LC50 - Fish (Danio rerio) [mg/l] : 100

Succinic acid

 : 48 Hour - EC50 - Daphnia magna [mg/l] : 813
 : 72 Hours - EC50 - Algae [mg/l] : 15900
 : 96 Hours - LC50 - Fish [mg/l] : 1240

butane-1,4-diol

 : 48 Hour - EC50 - Daphnia magna [mg/l] : 72.8
 : 72 Hours - EC50 - Algae [mg/l] : 675
 : 96 Hours - LC50 - Fish [mg/l] : 62 (Leuciscus idus melanotus)
 : 48 Hours - LC50 - Fish [mg/l] : 64

n-Butyl acetate
Propan-2-ol

 : 48 Hour - EC50 - Daphnia magna [mg/l] : 13299
 : 72 Hours - EC50 - Algae [mg/l] : > 1000
 : 96 Hours - LC50 - Fish [mg/l] : 9640

12.2. Persistence and degradability

 : Propan-2-ol : 53 % biodegradation after 5 days
 Readily biodegradable

12.3. Bioaccumulative potential

: Propan-2-ol : Not potentially bioaccumulable.

12.4. Mobility in soil

: No data

12.5. Results of PBT and vPvB assessment

 : Propan-2-ol :
 This substance is considered not to be PBT and vPvB

12.6. Other adverse effects

: No information available

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SECTION 13 Disposal considerations

13.1. Waste treatment methods

WASTE FROM PRODUCT :

Prohibition : : Do not allow the product to be released into the environment
Do not discharge waste into drains

Destruction/Disposal : Dispose of contents / container to an authorized center in accordance with national regulation

CONTAMINATED PACKAGING :

Decontamination/cleaning : Empty the packaging completely prior to disposal

Destruction/Disposal : Incinerate the plastic packaging at a licensed site

NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

SECTION 14 Transport information

14.1. UN number : UN 1993

* 14.2. UN proper shipping name : FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, n-Butyl acetate)

14.3. Transport hazard class(es) : 3

Hazard Label(s) : 3



14.4. Packing group : II

14.5. Environmental hazards : Marine pollutant : NO
Not classified as dangerous to the aquatic environment

14.6. Special precautions for user

Rail/road (RID/ADR) : Tunnel restriction code : (D/E)
Hazard identification number : 33
Classification code : F1


Sea transport : EmS Nr : F-E, S-E
Segregation group : -

Air transport (OACI/IATA) : Cargo aircraft:
Packing instruction: 364
Quantity: 60 L
Passenger aircraft:
Packing instruction: 353
Quantity: 5 L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

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SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

France : Professional diseases(table(s) nr 84) : applicable

US : NFPA Hazard Rating :
 - Reactivity : 0
 - Flammability : 3
 - Health : 1

15.2. Chemical safety assessment : No information available

Local prescriptions :

SECTION 16 Other information

Further information : Product for industrial use only
 For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region
 This safety data sheet has been written in conformity with the regulation (UE) 453/2010.

Text of R-Phrases in § 3 : R10 : Flammable
 R11 : Highly flammable.
 R22 : Harmful if swallowed.
 R36 : Irritating to eyes.
 R41 : Risk of serious damage to eyes.
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R66 : Repeated exposure may cause skin dryness or cracking
 R67 : Vapours may cause drowsiness and dizziness.

Text of H-Phrases in § 3 : EUH066 - Repeated exposure may cause skin dryness or cracking
 H225 - Highly flammable liquid and vapour
 H226 - Flammable liquid and vapour
 H302 - Harmful if swallowed
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness
 H411 - Toxic to aquatic life with long lasting effects

*** Update** : Modifications are indicated by an asterisk (*)

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

End of document

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