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ECOREL FREE HT 245-16

050434700

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

1.1. Product identifier

Trade name : ECOREL FREE HT 245-16

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

advised against

1.2.1 Relevant identified uses
1.3. Details of the supplier of the safety data sheet
Solderpaste for the soldering of electronic components
INVENTEC PERFORMANCE CHEMICALS SA 20 rue de Bourgogne

BP 211

69802 SAINT-PRIEST Cedex France

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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)

Health hazards : Eye irritation - Category 2 (Eye Irrit. 2) - H319

2.2. Label elements

2.2.1 Labelling EC 1272/2008 (CLP)

Hazard pictograms



Signal words : Warning

Hazard statements : H319 : Causes serious eye irritation

Precautionary statements:

• Prevention : P280 : Wear protective gloves/protective clothing/eye protection/face protection.

• Response : P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P337 + P313 : If eye irritation persists: Get medical advice/attention

F37 + F373 . If eye initiation persists. Get medical advice/atten

2.3. Other hazards : None under normal conditions

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Not classified. (GHS)

SECTION 2 Hazards identification (continued)

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation

Components contributing to the hazard:

: Preparation

ilazaiu .							
Substance name		Contents	CAS No	EC No	Index No	Ref REACH	Classification
Complex reaction mass of Chinese	:	< 5 %	144413-22-9	434-230-1			Not classified. (DSD/DPD)
gum rosin post reacted with acrylic acid							Aquatic Chronic 4;H413
2-ethylhexane-1,3-diol	:	< 5 %	94-96-2	202-377-9	603-087-00-9		Xi; R41
							Eye Dam. 1;H318
Reaction product of decanoic acid,	:	< 1 %		907-495-0		01-2119545465-35	Not classified. (DSD/DPD)
12-hydroxystearic acid and 1,2- ethanediamine							Not classified. (GHS)
Adipic acid	:	< 1 %	124-04-9	204-673-3	607-144-00-9		Xi; R36
							Eye Irrit. 2;H319
Alloy SnSb:	:	87.5 88.5 %					Not classified. (DSD/DPD)
							Not classified. (GHS)
Tin	:	91.5 %	7440-31-5	231-141-8		***	Not classified. (DSD/DPD)
							Not classified. (GHS)
Antimony	:	8.5 %	7440-36-0	231-146-5			Not classified. (DSD/DPD)

SECTION 4 First aid measures

4.1. Description of first aid measures

Inhalation : Not specifically applicable

Skin contact : Immediately rinse with plenty of water

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

: Never attempt to induce vomiting Ingestion

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

4.3. Indication of any immediate

medical attention and special

treatment needed

: No information available

: No information available

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SECTION 5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used

5.2. Special hazards arising from the

substance or mixture

Specific hazards : On heating : Toxic fumes may be released

5.3. Advice for firefighters

Specific fire fighting methods : Do not dispose of fire-fighting water in the environment

Cool down the containers exposed to heat with a water spray

Do not breathe fumes

Do not attempt to fight the fire without suitable protective equipment

Protection of fire-fighters : Complete protective clothing Self-contained breathing apparatus

SECTION 6 Accidental release measures

6.1. Personal precautions, protective : Avoid contact with skin and eyes

equipment and emergency procedures Do not breathe fumes.

: Do not allow product to spread into the environment 6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

- Recovery : Recover as much product as possible

Recover the product by scraping with a spatula or with a similar instrument

- Cleaning/decontamination : To clean the floor or objects contaminated by this product, use :

- Isopropyl alcohol

- Ethanol

- Disposal : For disposal of contaminated materials refer to section 13 : "Disposal considerations"

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 : During brazing operations : Vapour extraction at source

Precautions · Work in a well-ventilated area Do not handle with bare hands

Industrial hygiene Always wash your hands immediately after handling this product, and once again before

leaving the workplace

Do not eat, drink or smoke during use

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

- Recommended : Store :

- protected from humidity

: None, to our knowledge

- at temperature between 0 °C and 10 °C

Incompatible products

Packaging materials

- Recommended Polypropylene Polyethylene

Glass

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SECTION 7 Handling and storage (continued)

Not suitable : Aluminium and its alloys
 Copper and its alloys

7.3. Specific end use(s) : No data

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Engineering measures : Ensure good ventilation of the work station

8.1.1. Occupational Exposure Limits : Tin : USA (OSHA) : PEL - TWA (8h; mg/m³) : 2

Tin : Belgium : GWBB - TWA (8h; mg/m³) : 2

Reaction product of decanoic acid,

12-hydroxystearic acid and 1,2-ethanediamine : France : LEP - VME (8h; mg/m³) : 10

Reaction product of decanoic acid,

12-hydroxystearic acid and 1,2-ethanediamine : USA (ACGIH) : TLV - TWA (8h; mg/m^3) : 10

Adipic acid: Belgium: GWBB - TWA (8h; mg/m3): 5

Personal protection:

- Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment

Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended

- Hand protection : Protective gloves made of latex

- Eye protection- Skin protection: Safety goggles- Protective clothing

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and

chemical properties 9.1.a. Appearance

Physical state : Paste
Colour : grey
9.1.b. Odour : sweet

9.1.c. Odour threshold : No information available

9.1.d. pH
9.1.e. Melting point / Freezing point
9.1.f. Initial boiling point - boiling
1 Not applicable
241 at 248 °C
9.1.f. Initial boiling point - boiling
Tin: 2270 °C

range

9.1.g. Flash point : Not applicable

9.1.h. Evaporation rate : No information available

 9.1.i. Flammability
 : Non flammable.

 9.1.j. Explosion limits (lower - upper)
 : Not applicable

9.1.k. Vapour pressure: No information available9.1.l. Vapour density: No information available

9.1.m. Density : > 4.0 g/cm³

9.1.n. Solubility

-in water : Not miscible

9.1.o. Partition coefficient : n-octanol /: No information available

water

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SECTION 9 Physical and chemical properties (continued)

9.1.p. Auto-ignition temperature: No information available9.1.q. Thermal decomposition: No information available

9.1.r. Viscosity

Dynamic viscosity : 750 - 950 Pa.s at 20 °C

9.1.s. Explosive Properties
9.1.t. Oxidising properties
Not explosive material according to EC criteria
Non oxidizing material according to EC criteria

9.2. Other information : -

SECTION 10 Stability and reactivity

10.1. Reactivity10.2. Chemical stability10.3. Stable at room temperature

10.3. Possibility of hazardous

reactions

: No dangerous reactions known under normal conditions of use

10.4. Conditions to avoid : No information available **10.5.** Incompatible materials : No information available

10.6. Hazardous decomposition

products

: On thermal decomposition (pyrolysis), releases :

Carbon oxydes (CO, CO2)

Carboxylic acids

SECTION 11 Toxicological information

11.1. Information on toxicological

effects

Tin

Acute toxicity : No information available

On ingredients

Adipic acid : Rat oral LD50 [mg/kg] : 5560

: Rat inhalation LC50 [mg/l/4h]: 7.7 : Mouse oral LD50 [mg/kg]: 72

Reaction product of decanoic acid, 12-hydroxystearic acid and 1,2-

ethanediamine

: Rat inhalation LC50 [mg/l/4h] : 5.1

: Rat dermal LD50 [mg/kg] : 2000 : Rat oral LD50 [mg/kg] : 2000 : Rat oral LD50 [mg/kg] : 5170

 2-ethylhexane-1,3-diol
 : Rat oral LD50 [mg/kg] : 5170

 : Rabbit dermal, LD50 [mg/kg] : 8939

· Skin corrosion/irritation : No information available : Causes serious eye irritation · Serious eye damage/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 : No information available • STOT-repeated exposure : No information available

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SECTION 11 Toxicological information (continued)

: No information available Aspiration hazard

SECTION 12 Ecological information

12.1. Toxicity : No specific data

Do not allow the product, as is, to spread into the environment

Effects on the aquatic environment

On ingredients

: 48 Hour - EC50 - Daphnia magna [mg/l] : 85.7 Adipic acid

> : 72 Hours - EC50 - Algae [mg/l] : 31.3 (Desmodesmus subspicatus) : 96 Hours - LC50 - Fish [mg/l] : 230 (Leuciscus idus melanotus)

Reaction product of decanoic acid, 12-hydroxystearic acid and 1,2-

ethanediamine

: 48 Hour - EC50 - Daphnia magna [mg/l] : 94.9

: 72 Hours - EC50 - Algae (Pseudokirchneriella subcapitata) [mg/l] : 43.2

: 96 Hours - LC50 - Fish (Oncorhynchus mykiss) [mg/l] : > 100

2-ethylhexane-1,3-diol : 24 Hours - EC50 - Daphnia magna [mg/l] : 811

12.2. Persistence and degradability : No information available 12.3. Bioaccumulative potential : No information available 12.4. Mobility in soil : No information available : No information available 12.5. Results of PBT and vPvB

assessment

 No information available 12.6. Other adverse effects

SECTION 13 Disposal considerations

13.1. Waste treatment methods **WASTE FROM PRODUCT:**

Prohibition: : Discharging into rivers and drains is forbidden

Do not dispose of with domestic waste

Land-fill is forbidden Do not bring to dump

Destruction/Disposal

CONTAMINATED PACKAGING:

: Dispose of at a licensed waste collection center

Decontamination/cleaning : Empty the packaging completely prior to disposal

Destruction/Disposal : Entrust the thoroughly decontaminated packaging to a licensed waste-contractor NOTE

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

regulations regarding disposal

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SECTION 14 Transport information

RID/ADR/IMDG/IATA : Not regulated

SECTION 15 Regulatory information

15.1. Safety, health and environmental: Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

France : Professional diseases(table(s) nr 66) : applicable

15.2. Chemical safety assessment : No information available

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 : R36 : Irritating to eyes.

R41 : Risk of serious damage to eyes. : H318 - Causes serious eye damage

Text of H-Phrases in § 3 : H318 - Causes serious eye damage H319 - Causes serious eye irritation

H413 - May cause long lasting harmful effects to aquatic life

* **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 mentionned 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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