

SAFETY DATA SHEET

According to Regulation (EU) 2020/878, amending Annex II of Regulation (EC) No 1907/2006 (REACH)

BTFO-81-1 (TACKY FLUX)

Printing date: 10/03/2023

Version: 2

Revision date: 09/03/2023

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

1.1. Product identifier

Trade name : BTFO-81-1
Description : Soldering tacky flux

Trade name	Regulation	UFI
BTFO-81-2H	Type 1.1.3.C acc. UNE-EN ISO 9454 // ROL0 acc. DIN EN 61190-1-1	9VR2-10HS-A002-AK23

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

Identified uses : Repair soldering. Reflow applications. Tinning and other applications. For professional and industrial use.
Uses advised against : Do not use for other purposes other than those described in the product.

1.3. Details of the supplier of the safety data sheet

Supplier : BROQUETAS, S.L.
Address : c/ Can Sallarès 12-16
08740 Sant Andreu de la Barca, Barcelona (Spain)
Telephone number : +34 936401900
E-mail address for a competent person responsible for the safety data sheet: broquetas@broquetas.com

Supplier: Transfer Multisort Elektronik Ltd.
Coleshill, Birmingham Coleshill House Suite 1C, 1 Station Road
+44 1675790026 e-mail: office@tme-uk.eu

1.4. Emergency telephone number

Availability : +34 936401900
Monday to Friday from 8:00 to 14:00 h.


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) N° 1272/2008 [CLP]	
Hazard Classes/ categories	Hazard statements (H)*
GHS07 Harmful	H315: Causes skin irritation. Skin Corr 1B. H317: May cause an allergic skin reaction. Skin Sens 1. H319: Causes serious eye irritation. Eye Dam. 1. H412: Harmful to aquatic life with long lasting effects. Aquatic Chronic 3.

2.2. Label elements

Labelling (CLP)

Regulation (EC) N° 1272/2008 [CLP]		
Signal Word and Pictograms	Hazard statements (H)	Precautionary Statements (P)*
Warning		
 GHS07	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects.	P202, P270, P260, P280, P301+P330+P331, P303+P361+P353, P363, P304+P340, P305+P351+P338, P501

*Full text of the Precautionary Statements (P): See section 16



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Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

2.3. Other hazards

Compliance with PBT/vPvB criteria : The product does not contain substances classified as PBT or vPvB.

Other hazards not identified in the classification Risk of burn hazards when touching hot parts of the unit at high temperatures. Inhaling the mothball fumes can cause health problems. Ensure proper ventilation. It has no known endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Composition:

Hazardous ingredients	Content (%)	CAS number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Rosin / Rosin derivatives	40 - 60	8050-09-7	Skin Sens. 1: H317
Dicarboxylic acids	2 - 10	124-04-9	Eye irritation category 2: H319

*The product contains no known nanomaterials.

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes : If a health problem is detected, seek medical advice.

In case of inhalation : Move exposed person to fresh air and seek medical advice.

In case of contact with skin : Clean with soap and water. If symptoms persist consult doctor.

In case of contact with eyes : Immediately rinse long with water for several minutes holding the eyelids open for a good cleaning. Consult an ophthalmologist.

In case of ingestion : Seek medical advice. Do not induce vomiting. Give to drink water if the person is conscious. DO NOT give water to an unconscious person (In suitable conditions of use the product is not ingestible).

Recommendations for first aid responders : The protection to first-aid personnel: Should wear the protection equipment of level C to give first aid in the safe area.

4.2. Most important symptoms and effects, both acute and delayed : Rinse mouth immediately and drink plenty of water.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Co-ordinate fire-fighting measures to the fire surroundings

Unsuitable extinguishing media : D powder.

5.2. Special Hazards arising from the substance or mixture

Hazardous combustion products : Non flammable



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Other specific hazards

: In case of fire: Wear self-contained breathing apparatus.

5.3. Advice for firefighters

: In case of fire, use personal protective equipment as required. Firefighters must wear fire resistant protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Follow the indications described in section 8.

For emergency responders

: Avoid contact with skin, eyes and clothing. Follow the indications described in section 8.

6.2. Environmental precautions

: Do not flush product into public sewer, water systems or surface waters.

6.3. Methods and material for containment and cleaning up

Collect the product in closed recipients and properly labelled. Managing wastes through an authorised waste management entity.

6.4. Reference to other sections

: For more information, see sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevention and protection measures

: The product may be handled only by appropriately trained personnel and with appropriate Individual protection measures. During the working process the product attains high temperatures so using suitable gloves and eye protection and wearing a mask in poorly ventilated areas is recommended, as it is described in section 8.2.

Advice on general occupational hygiene

: Do not eat, drink, or smoke while handling the product. Keep proper hygiene after handling. Not explosive.

7.2. Conditions for safe storage, including any compatibilities

Technical measures and storage conditions

: Minimum storage temperature: +5°C
Maximum storage temperature: +25°C

Containers requirements and storage areas

: Keep away from heat.
Do not frost.

Further information for storage

: Keep away from heat or sunlight.

7.3. Specific end use (s)

: Surface active agent
Further information: refer to Technical Data Sheet

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

: Rosin flux fumes (CAS 8050-09-7):
MEL: 0.05 mg/m³ 8 h. TWA
MEL (15 min): 0.15 mg/m³

DNELs and PNECs

: Not available.

8.2. Exposure controls



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Appropriate engineering controls	: Use only in open or well ventilated areas. Use preferably localized extraction.
Individual protection measures, such as personal protective equipment	
Eye/face protection	: Proper handling may include wearing protective glasses.
Skin protection	
Hand protection	: Avoid contact with the skin.
Others	: Use the appropriate protective clothing of welders.
Respiratory protection	: Avoid breathing dust or fumes during use.
Environmental exposure controls	: Take into account the usual precautions to protect the environment, see section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance	: Yellow/beige gel
Odour	: Characteristic.
Odour threshold	: Not available / Not applicable.
pH	: Not available / Not applicable.
Melting point	: >60°C
Initial boiling point and boiling range	: Undetermined.
Flash point	: Non flammable.
Evaporation rate	: Not available / Not applicable.
Flammability (solid, gas)	: Not flammable.
Upper/lower flammability or explosive limits	: Not applicable.
Vapour pressure (20°C)	: Undetermined
Vapour density	: Not applicable.
Density at (20°C)	: 0.9-1.0 g/cm ³
Solubility(ies)	: Partially.
Decomposition temperature	: Not available / Not applicable.
Viscosity	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
9.2. Other information	: No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	: No ignition, explosion, self-heating or visible decomposition.
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10.2. Chemical stability	: The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).
10.3. Hazardous reactions	: No risks worthy of mention.
10.4. Conditions to avoid	: Frost.
10.5. Materials to avoid	: Strong oxidants, alkali metals
10.6. Hazardous decomposition products	: Carbon dioxide. Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Hazard/Effect class	
Acute toxicity	: CAS 124-04-9 Dicarboxylic acids Oral LD50 (rat) → 3600 mg/kg Dermal LD50 (rat) → >7940 mg/kg CAS 8050-09-7 Rosin Oral LD50 (rat) → 3 mg/kg Dermal LD50 (rat) → >2000 mg/kg
Skin corrosion/irritation	: On the basis of the available data, the classification criterion is not complied.
Serious eye damage/irritation	: On the basis of the available data, the classification criterion is not complied.
Respiratory or skin sensitisation	: On the basis of the available data, the classification criterion is not complied.
Germ cell mutagenicity	: On the basis of the available data, the classification criterion is not complied.
Carcinogenicity	: On the basis of the available data, the classification criterion is not complied.
Reproductive toxicity	: On the basis of the available data, the classification criterion is not complied.
STOT-single exposure	: On the basis of the available data, the classification criterion is not complied.
STOT-repeated exposure	: On the basis of the available data, the classification criterion is not complied.
Aspiration hazards	: On the basis of the available data, the classification criterion is not complied.
Symptoms	: -
Chronic effects	: -
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	: It contains no known endocrine disruptor.
11.2.2. Information on other hazards	: Not applicable.

SECTION 12: Ecological information

12.1. Toxicity information	: The product is not: Ecotoxic.
12.2. Persistence and degradability	: The product is biodegradable. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).
12.3. Bioaccumulative potential	: On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.
12.4. Mobility in soil	: No data available.
12.5. Results PBT and vPvB assessment	: The product does not contain any substance classified as PBT or vPvB.
12.6. Endocrine disrupting properties	: It contains no known endocrine disruptor.
12.7. Other side effects	: No other side effects are known.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Appropriate methods of waste treatment of both substance or mixtures** : Product waste must be transported to an authorized waste disposal plant. Dispose according to local and national regulations. Do not remove by direct discharge into rivers or sewage system.
- Appropriate methods of waste treatment of contaminated packaging** : Handle contaminated containers as the product itself.

SECTION 14: Transport information

	ADR/RID	AND/ADNR	IMDG	IATA
14.1. UN number	The product is not classified according to transport agreements.			
14.2. UN proper shipping name				
14.3. Transport hazard class (es)				
14.4. Packing group				
14.5. Environmental hazards				
14.6. Special precautions for user				
Special dispositions				

- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.

SECTION 15: Regulatory information

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

EU regulations

- REACH authorizations** : The product does not contain a substance present in the candidate list of SVHC, and in Annex XIV of REACH.
- REACH use restrictions** : The product has no restriction of use.
- Regulation (EC) 2037/2000 on substances that deplete the ozone layer** : Not applicable.

- 15.2. Chemical safety assessment : An evaluation of the product's chemical safety has not been carried out.

SECTION 16: Other information

- Changes to the previous version** : Format adaptation to the REACH Regulation amendment, Regulation (EU) 2020/878. Changes to sections 1.1, 1.2, 2.3, 3.2, 11.2, 12.6 and 12.7. This SDS replaces version 1.

- Abbreviations and acronyms** :
- SDS: Safety data sheet
 - PBT: Persistent, bioaccumulative and toxic
 - vPvB: Very persistent and very bioaccumulative
 - TLV: Threshold Limit Values
 - TWA: Time Weighted Average
 - ACGIH: American Conference of Industrial Hygienists
 - DNEL: Derived non-effect level
 - PNEC: Predicted non-effect concentration
 - SVHC: Substances of Very High Concern
 - LD50: Median Lethal dose.
 - LC50: Median Lethal Concentration.



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	ATEmix: Acute toxicity estimated of the mixture.
Key literature references and sources for data	: Safety data sheet of the components. https://echa.europa.eu/
Indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification	: Classification of the mixture from the components classifications.
Full text of hazard statements (H)	: H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects.
Full Text of precautionary statements	: P270 Do not eat, drink or smoke when using this product. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container to Dispose of this material and its container to hazardous or special waste collection point. Consult the local waste disposal expert about waste disposal...
Advice on any training appropriate for workers:	: Maintenance and production plant crew has received information and training on the safety instructions in plant and equipment.
NOTES	: This information only refers to the product described in this file and may not be valid if it is used in conjunction with another product (s) or in any process. The information presented is based on our most accurate level of current knowledge and is provided in good faith but cannot be guaranteed or ensured its accuracy or reliability. It is a guide for the safe handling, use, processing, storage, transportation and disposal of this product and should not be considered a guarantee or a quality specification.