



Safety Data Sheet





**GREEN
TURTLE**
EPOXY

Safety Data Sheet dated 25/11/2019, version 1

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

- 1.1. Product identifier
Mixture identification:
Trade name: GREEN TURTLE EPOXY
Trade code: FD1
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Industrial use, Professional use, Consumer use
Uses advised against:
None has been described
- 1.3. Details of the supplier of the safety data sheet
HIJOS DE A. FERRER DALMAU, S.A.,
Rosalia de Castro, 21 08025 Barcelona SPAIN
Competent person responsible for the safety data sheet:
jaime@ferrer-dalmau.com
- 1.4. Emergency telephone number
Emergency Tel. +34 934874015 (office hours)

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
-  Warning, Skin Irrit. 2, Causes skin irritation.
 -  Danger, Eye Dam. 1, Causes serious eye damage.
 -  Warning, Skin Sens. 1B, May cause an allergic skin reaction.
 -  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P102 Keep out of reach of children.
- P261 Avoid breathing vapours.
- P264 Wash with water, Thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.



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P280 Wear protective gloves/protective clothing/eye protection/face protection.

Special Provisions:

None

Contains

Benzenesulfonicacid,4-methyl-,methylester

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Cashew, nutshell liq., polymer with epichlorohydrin and phenol

Formaldehyde, polymer with (chloromethyl)oxirane and phenol

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | Classification |
|-------------------|--|--|--|
| >= 40% - < 50% | bis-[4-(2,3-epoxipropoxy)phenyl]propane | Index number: 603-073-00-2 CAS: 1675-54-3 EC: 216-823-5 REACH No.: 01-2119456619-26 | 3.3/2 Eye Irrit. 2 H319 3.2/2 Skin Irrit. 2 H315 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/C2 Aquatic Chronic 2 H411 Specific Concentration Limits: C >= 5%: Skin Irrit. 2 H315 C >= 5%: Eye Irrit. 2 H319 |
| >= 20% - < 25% | Cashew, nutshell liq., polymer with epichlorohydrin and phenol | CAS: 68390-54-5 | 3.4.2/1 Skin Sens. 1 H317 |
| >= 15% - < 20% | Formaldehyde, polymer with (chloromethyl)oxirane and phenol | CAS: 9003-36-5 EC: 500-006-8 REACH No.: 01-2119454392-40 | 3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 4.1/C2 Aquatic Chronic 2 H411 |
| >= 15% - < 20% | oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Index number: 603-103-00-4 CAS: 68609-97-2 EC: 271-846-8 | 3.2/2 Skin Irrit. 2 H315 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 |
| >= 3% - < 5% | Benzenesulfonicacid,4-methyl-,methylester | CAS: 80-48-8 EC: 201-283-5 | 3.1/4/Oral Acute Tox. 4 H302 3.2/1C Skin Corr. 1C H314 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 |



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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Spray water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

NBR (nitrile rubber).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|--|--------------------|---------|--------|
| Appearance and colour: | Liquid, dark brown | -- | -- |
| Odour: | Characteristic | -- | -- |
| Odour threshold: | N.A. | -- | -- |
| pH: | 6 | -- | -- |
| Melting point / freezing point: | N.A. | -- | -- |
| Initial boiling point and boiling range: | N.A. | -- | -- |



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|---|-------------|----|----|
| Flash point: | > 90 ° C | -- | -- |
| Evaporation rate: | N.A. | -- | -- |
| Solid/gas flammability: | N.A. | -- | -- |
| Upper/lower flammability or explosive limits: | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Vapour density: | N.A. | -- | -- |
| Relative density: | 1.1 g/cm3 | -- | -- |
| Solubility in water: | N.A. | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient (n-octanol/water): | N.A. | -- | -- |
| Auto-ignition temperature: | N.A. | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| Viscosity: | 979 cP 25°C | -- | -- |
| Explosive properties: | N.A. | -- | -- |
| Oxidizing properties: | N.A. | -- | -- |

9.2. Other information

| Properties | Value | Method: | Notes: |
|--------------------------------------|-------|---------|--------|
| Miscibility: | N.A. | -- | -- |
| Fat Solubility: | N.A. | -- | -- |
| Conductivity: | N.A. | -- | -- |
| Substance Groups relevant properties | N.A. | -- | -- |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

+Green Turtle Resin

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 12500 mg/kg

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation



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The product is classified: Skin Sens. 1B H317

- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

bis-[4-(2,3-epoxipropoxy)phenyl]propane - CAS: 1675-54-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 17100 mg/kg

Test: LD50 - Route: Skin 19200 mg/kg

Cashew, nutshell liq., polymer with epichlorohydrin and phenol - CAS: 68390-54-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 44444 mg/kg

d) respiratory or skin sensitisation:

Test: Skin Sensitization Positive

Formaldehyde, polymer with (chloromethyl)oxirane and phenol - CAS: 9003-36-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. - CAS: 68609-97-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 17100 mg/kg

Test: LD50 - Route: Oral 19200 mg/kg

bis-[4-(2,3-epoxipropoxy)phenyl]propane - CAS: 1675-54-3

LD50 (RAT) ORAL: 11 G/KG (11000 MG/KG)

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

+Green Turtle Resin

The product is classified: Aquatic Chronic 2 - H411

bis-[4-(2,3-epoxipropoxy)phenyl]propane - CAS: 1675-54-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 1.8 mg/l

Endpoint: EC50 - Species: Daphnia 0.3 mg/l - Notes: OECD 211

Endpoint: EC50 - Species: Algae 11 mg/l - Duration h: 72

Formaldehyde, polymer with (chloromethyl)oxirane and phenol - CAS: 9003-36-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish < 1 mg/l

12.2. Persistence and degradability



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- None
N.A.
- 12.3. Bioaccumulative potential
bis-[4-(2,3-epoxipropoxy)phenyl]propane - CAS: 1675-54-3
Test: Kow - Partition coefficient 3.3242
- 12.4. Mobility in soil
bis-[4-(2,3-epoxipropoxy)phenyl]propane - CAS: 1675-54-3
Test: log/Koc 2.65 - Notes: (OECD 121)
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions.
In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number
ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082
- 14.2. UN proper shipping name
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Cashew, nutshell liq., polymer with epichlorohydrin and phenol, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Cashew, nutshell liq., polymer with epichlorohydrin and phenol, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Cashew, nutshell liq., polymer with epichlorohydrin and phenol, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
- 14.3. Transport hazard class(es)
ADR-Class: 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9
- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: Yes



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| IMDG-Marine pollutant: | Marine Pollutant |
| 14.6. Special precautions for user | |
| ADR-Subsidiary risks: | - |
| ADR-S.P.: | 274 335 375 601 |
| ADR-Transport category (Tunnel restriction code): | 3 (-) |
| IATA-Passenger Aircraft: | 964 |
| IATA-Subsidiary risks: | - |
| IATA-Cargo Aircraft: | 964 |
| IATA-S.P.: | A97 A158 A197 |
| IATA-ERG: | 9L |
| IMDG-EmS: | F-A , S-F |
| IMDG-Subsidiary risks: | - |
| IMDG-Stowage and handling: | Category A |
| IMDG-Segregation: | - |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | |
| N.A. | |

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.



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H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

| Hazard class and hazard category | Code | Description |
|----------------------------------|---------------|--|
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Skin Corr. 1C | 3.2/1C | Skin corrosion, Category 1C |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Eye Dam. 1 | 3.3/1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| Skin Sens. 1 | 3.4.2/1 | Skin Sensitisation, Category 1 |
| Skin Sens. 1,1A,1B | 3.4.2/1-1A-1B | Skin Sensitisation, Category 1,1A,1B |
| Skin Sens. 1B | 3.4.2/1B | Skin Sensitisation, Category 1B |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1B, H317 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

| | |
|-------------|--|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |



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| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |