

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

1 Identification

- **Product identifier**
- **Trade name:** EPOXY MARINE NON-SAG PUTTY - A
- **Article number:** CWPEPB-00039
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Treasure Island Industrial Corp.
No.2, 3rd Ave. S. Osmena Blvd.
North Reclamation Area
Cebu City 6000
PHILIPPINES
doo@treasureisland.com.ph
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:** During normal opening times: +63 32 232 05 13

2 Hazard identification

- **Classification of the substance or mixture**



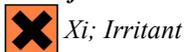
Flam. Liq. 3 H226 Flammable liquid and vapour.



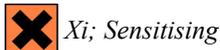
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.


 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irritation 2A H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 Acute Tox. 5 H333 May be harmful if inhaled.
 CWPEPB-00039

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



R36/38: Irritating to eyes and skin.



R43: May cause sensitisation by skin contact.

(Contd. on page 2)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 1)

*N; Dangerous for the environment**R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.***Information concerning particular hazards for human and environment:***The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.***Classification system:***The classification is according to the latest editions of the EU-lists, and extended by company and literature data.***Label elements****Labelling according to EU guidelines:***The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.***Code letter and hazard designation of product:***Xi Irritant**N Dangerous for the environment***Hazard-determining components of labelling:***Diglycidyl ether of bisphenol A***Risk phrases:***36/38 Irritating to eyes and skin.**43 May cause sensitisation by skin contact.**51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.***Safety phrases:***2 Keep out of the reach of children.**24/25 Avoid contact with skin and eyes.**29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.**37 Wear suitable gloves.**46 If swallowed, seek medical advice immediately and show this container or label.***Special labelling of certain preparations:***Contains epoxy constituents. See information supplied by the manufacturer.***Other hazards****Results of PBT and vPvB assessment****PBT:** *Not applicable.***vPvB:** *Not applicable.*

3 Composition / information on ingredients

Chemical characterisation: Mixtures**Description:** *Mixture of substances listed below with nonhazardous additions.*

(Contd. on page 3)

PH

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 2)

Dangerous components:

CAS: 471-34-1	Calcium Carbonate	
CAS: 25068-38-6	Diglycidyl ether of bisphenol A  Xi R36/38  Xi R43  N R51/53  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	
CAS: 93763-70-3	Perlite	
CAS: 7727-43-7	Barium Sulfate	
CAS: 67-64-1	propanone  Xi R36  F R11 R66-67  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 1330-20-7	Dimethylbenzene  Xn R20/21  Xi R38 R10  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 Acute Tox. 5, H303	
CAS: 108-88-3	Methylbenzene  Xn R48/20-63-65  Xi R38  F R11 R67 Repr. Cat. 3  Flam. Liq. 2, H225  Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304  Skin Irrit. 2, H315; STOT SE 3, H336 Acute Tox. 5, H303	

(Contd. on page 4)

PH

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 3)

CAS: 9004-36-8	Cellulose Acetate Butyrate  T+ R26/27/28  C R35  Xi R41  Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330  Asp. Tox. 2, H305  Skin Corr. 1C, H314; Eye Dam. 1, H318	
CAS: 111-76-2	Normal Butyl Cellusolve  Xn R20/21/22  Xi R36/38  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	

 · **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 5)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 4)

- **Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Ensure adequate ventilation.
- **Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls / personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

 · **Ingredients with limit values that require monitoring at the workplace:**
CAS: 471-34-1 Calcium Carbonate

 PEL (USA) Long-term value: 15* 5** mg/m³
 *total dust **respirable fraction

 REL (USA) Long-term value: 10* 5** mg/m³
 *total dust **respirable fraction

TLV (USA) TLV withdrawn

CAS: 93763-70-3 Perlite

 PEL (USA) Long-term value: 15* 5** mg/m³
 *total dust **respirable fraction

 REL (USA) Long-term value: 10* 5** mg/m³
 *total dust **respirable fraction

TLV (USA) TLV withdrawn

CAS: 7727-43-7 Barium Sulfate

 PEL (USA) Long-term value: 15* 5** mg/m³
 *total dust **respirable fraction

(Contd. on page 6)

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 5)

REL (USA) Long-term value: 10* 5** mg/m³
 *total dust **respirable fraction

TLV (USA) Long-term value: 5* mg/m³
 *inhalable fraction; E

CAS: 67-64-1 propanone

PEL (USA) Long-term value: 2400 mg/m³, 1000 ppm

REL (USA) Long-term value: 590 mg/m³, 250 ppm

TLV (USA) Short-term value: 500 ppm
 Long-term value: 250 ppm
 A4, BEI

CAS: 1330-20-7 Dimethylbenzene

PEL (USA) Long-term value: 435 mg/m³, 100 ppm

REL (USA) Short-term value: 655 mg/m³, 150 ppm
 Long-term value: 435 mg/m³, 100 ppm

TLV (USA) Short-term value: (150) ppm
 Long-term value: (100) NIC-20 ppm
 BEI, A4

CAS: 108-88-3 Methylbenzene

PEL (USA) Long-term value: 200 ppm
 Ceiling limit: 300; 500* ppm
 *10-min peak per 8-hr shift

REL (USA) Short-term value: 560 mg/m³, 150 ppm
 Long-term value: 375 mg/m³, 100 ppm

TLV (USA) Long-term value: 20 ppm
 BEI, OTO, A4

CAS: 111-76-2 Normal Butyl Cellusolve

PEL (USA) Long-term value: 240 mg/m³, 50 ppm
 Skin

REL (USA) Long-term value: 24 mg/m³, 5 ppm
 Skin

TLV (USA) Long-term value: 20 ppm
 BEI, A3

· Ingredients with biological limit values:
CAS: 67-64-1 propanone

BEI (USA) 25 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Acetone (nonspecific)

CAS: 1330-20-7 Dimethylbenzene

BEI (USA) 1.5 g/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Methylhippuric acids

(Contd. on page 7)

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 6)

CAS: 108-88-3 Methylbenzene

BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

CAS: 111-76-2 Normal Butyl Cellusolve

BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid (BAA) (with hydrolysis)
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· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 8)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 7)

 · **Eye protection:**


Tightly sealed goggles

9 Physical and chemical properties

 · **Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

 · **pH-value:** Not determined.

 · **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

 · **Flash point:** > 100 °C

 · **Flammability (solid, gas):** Not applicable.

 · **Decomposition temperature:** Not determined.

 · **Auto-ignition temperature:** Product is not selfigniting.

 · **Explosive properties:** Not determined.

 · **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

 · **Vapour pressure:** Not determined.

Density at 20 °C:	1.59 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

 · **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

 · **Partition coefficient: n-octanol/water:** Not determined.

 · **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

 · **Solvent content:**
Organic solvents: 8.3 %

(Contd. on page 9)

PH

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 8)

VOC (EC)	8.30 %
Solids content:	62.4 %
Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· LD/LC50 values relevant for classification:		
CAS: 471-34-1 Calcium Carbonate		
Oral	LD50	6,450 mg/kg (rat)
CAS: 67-64-1 propanone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
CAS: 1330-20-7 Dimethylbenzene		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
CAS: 108-88-3 Methylbenzene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
CAS: 111-76-2 Normal Butyl Cellusolve		
Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 10)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

Irritant

(Contd. of page 9)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number · ADR, IMDG, IATA | Not applicable
UN1263 |
| <ul style="list-style-type: none"> · UN proper shipping name · ADR · IMDG, IATA | Not applicable
1263 PAINT, ENVIRONMENTALLY HAZARDOUS
PAINT |
| <ul style="list-style-type: none"> · Transport hazard class(es) | Not applicable |

(Contd. on page 11)

PH

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 10)

 · **ADR**

 · **Class** 3 Flammable liquids.
 · **Label** 3

 · **IMDG, IATA**

 · **Class** 3 Flammable liquids.
 · **Label** 3

 · **Packing group** Not applicable
 · **ADR, IMDG, IATA** I

 · **Environmental hazards:**
 · **Special marking (ADR):** Symbol (fish and tree)

 · **Special precautions for user** Warning: Flammable liquids.
 · **Hazard identification number (Kemler code):** 30
 · **EMS Number:** F-E,S-E

 · **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

 · **Transport/Additional information:**

 · **ADR**
 · **Limited quantities (LQ)** 500 ml
 · **Excepted quantities (EQ)** Code: E3
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 300 ml
 · **Transport category** 1

 · **IMDG**
 · **Limited quantities (LQ)** 500 ml
 · **Excepted quantities (EQ)** Code: E3
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 300 ml

 · **UN "Model Regulation":** UN 1263 PAINT, 3, I, ENVIRONMENTALLY HAZARDOUS

PH

(Contd. on page 12)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 11)

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Philippines Inventory of Chemicals and Chemical Substances**

All ingredients are listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H300 Fatal if swallowed.

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H305 May be harmful if swallowed and enters airways.

H310 Fatal in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R35 Causes severe burns.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

(Contd. on page 13)

PH

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY - A

(Contd. of page 12)

- R38 *Irritating to skin.*
- R41 *Risk of serious damage to eyes.*
- R43 *May cause sensitisation by skin contact.*
- R48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
- R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R63 *Possible risk of harm to the unborn child.*
- R65 *Harmful: may cause lung damage if swallowed.*
- R66 *Repeated exposure may cause skin dryness or cracking.*
- R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing SDS:** Product safety department

· **Contact:** Mr. Ong

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 5: Acute toxicity – Category 5

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Asp. Tox. 2: Aspiration hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

1 Identification

- **Product identifier**
- **Trade name:** EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER
- **Article number:** CWPEPB-00222
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Treasure Island Industrial Corp.
No.2, 3rd Ave. S. Osmena Blvd.
North Reclamation Area
Cebu City 6000
PHILIPPINES
doo@treasureisland.com.ph
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:** During normal opening times: +63 32 232 05 13

2 Hazard identification

- **Classification of the substance or mixture**

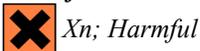


Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irritation 2A H319 Causes serious eye irritation.
Acute Tox. 5 H333 May be harmful if inhaled.
CWPEPB-00222

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

(Contd. on page 2)

PH

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 1)

 · **Code letter and hazard designation of product:**

Xn Harmful

 · **Hazard-determining components of labelling:**

Polyamide Resin

 · **Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

 · **Safety phrases:**

2 Keep out of the reach of children.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

56 Dispose of this material and its container to hazardous or special waste collection point.

 · **Other hazards**

 · **Results of PBT and vPvB assessment**

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

* 3 Composition / information on ingredients

 · **Chemical characterisation: Mixtures**

 · **Description:** Mixture of substances listed below with nonhazardous additions.

 · **Dangerous components:**

CAS: 63428-84-2	Polyamide Resin  Xi R36/38  Skin Irrit. 2, H315  Eye Irritation 2B, H320	
CAS: 471-34-1	Calcium Carbonate	
CAS: 93763-70-3	Perlite	
CAS: 7631-86-9	Fumed Silica  STOT SE 3, H335-H336  Acute Tox. 5, H303	
CAS: 108-88-3	Methylbenzene  Xn R48/20-63-65  Xi R38  F R11 R67 Repr. Cat. 3  Flam. Liq. 2, H225  Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304  Skin Irrit. 2, H315; STOT SE 3, H336 Acute Tox. 5, H303	

(Contd. on page 3)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 2)

CAS: 1332-58-7	Kaolin	
CAS: 111-76-2	Normal Butyl Cellusolve	
	 Xn R20/21/22  Xi R36/38  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	

 · **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.

(Contd. on page 4)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 3)

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.*
- **Information about fire - and explosion protection:** *No special measures required.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep container tightly sealed.*
- **Specific end use(s)** *No further relevant information available.*

8 Exposure controls / personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 471-34-1 Calcium Carbonate

PEL (USA)	Long-term value: 15 * 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10 * 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn

CAS: 93763-70-3 Perlite

PEL (USA)	Long-term value: 15 * 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10 * 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn

CAS: 108-88-3 Methylbenzene

PEL (USA)	Long-term value: 200 ppm Ceiling limit: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 20 ppm BEI, OTO, A4

(Contd. on page 5)

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 4)

CAS: 1332-58-7 Kaolin

PEL (USA) Long-term value: 15* 5** mg/m³
 *total dust **respirable fraction

REL (USA) Long-term value: 10* 5** mg/m³
 *total dust **respirable fraction

TLV (USA) Long-term value: 2* mg/m³
 E; as respirable fraction, A4

CAS: 111-76-2 Normal Butyl Cellusolve

PEL (USA) Long-term value: 240 mg/m³, 50 ppm
 Skin

REL (USA) Long-term value: 24 mg/m³, 5 ppm
 Skin

TLV (USA) Long-term value: 20 ppm
 BEI, A3

Ingredients with biological limit values:
CAS: 108-88-3 Methylbenzene

BEI (USA) 0.02 mg/L
 Medium: blood
 Time: prior to last shift of workweek
 Parameter: Toluene

0.03 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Toluene

0.3 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: o-Cresol with hydrolysis (background)

CAS: 111-76-2 Normal Butyl Cellusolve

BEI (USA) 200 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 6)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 5)

· Protection of hands:


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:

Form: Fluid
Colour: According to product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 2,230 °C

· **Flash point:** 23 - 60 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** >370 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.

· **Vapour pressure:** Not determined.

(Contd. on page 7)

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 6)

· Density at 20 °C:	1.48 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	3.9 %
VOC (EC)	3.90 %
Solids content:	93.6 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· LD/LC50 values relevant for classification:

CAS: 471-34-1 Calcium Carbonate

Oral	LD50	6,450 mg/kg (rat)
------	------	-------------------

CAS: 7631-86-9 Fumed Silica

Oral	LD50	3,160 mg/kg (rat)
------	------	-------------------

CAS: 108-88-3 Methylbenzene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

CAS: 111-76-2 Normal Butyl Cellusolve

Oral	LD50	1,200 mg/kg (ATE)
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(Contd. on page 8)

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 7)

Dermal	LD50	1,480 mg/kg (rat) 400 mg/kg (rab)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
 The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
 Harmful

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· ADR, IMDG, IATA	UN1263
· UN proper shipping name	
· ADR	1263 PAINT
· IMDG, IATA	PAINT

(Contd. on page 9)

Safety Data Sheet

according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 8)

 · **Transport hazard class(es)**

 · **ADR, IMDG, IATA**

 · **Class**

3 Flammable liquids.

 · **Label**

3

 · **Packing group**

III

 · **ADR**

Void

 · **IMDG, IATA**

 · **Environmental hazards:**

Not applicable.

 · **Special precautions for user**

Warning: Flammable liquids.

 · **EMS Number:**

F-E,S-E

 · **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

 · **Transport/Additional information:**

 · **ADR**

 · **Limited quantities (LQ)**

5L

 · **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

 · **UN "Model Regulation":**

UN 1263 PAINT, 3, III

15 Regulatory information

 · **Safety, health and environmental regulations/legislation specific for the substance or mixture**

 · **Philippines Inventory of Chemicals and Chemical Substances**

CAS: 471-34-1	Calcium Carbonate
CAS: 93763-70-3	Perlite
CAS: 14807-96-6	Hydrated Magnesium Silicate
CAS: 7631-86-9	Fumed Silica
CAS: 108-88-3	Methylbenzene
CAS: 1332-58-7	Kaolin
CAS: 111-76-2	Normal Butyl Cellusolve
CAS: 8002-43-5	Lecithin
CAS: 1318-93-0	Montmorillonite
CAS: 14808-60-7	Silicon Dioxide
	Carbon black

(Contd. on page 10)

Safety Data Sheet according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 9)

CAS: 107-98-2	1-methoxy-2-propanol
CAS: 1589-47-5	2-methoxypropanol

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H320 Causes eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- R11 Highly flammable.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R36/38 Irritating to eyes and skin.
- R38 Irritating to skin.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R67 Vapours may cause drowsiness and dizziness.

- **Department issuing SDS:** Product safety department

- **Contact:** Mr. Ong

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

(Contd. on page 11)

Safety Data Sheet
according to GHS

Printing date 19.12.2022

Revision: 19.12.2022

Trade name: EPOXY MARINE NON-SAG PUTTY 18NSH HARDENER

(Contd. of page 10)

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
*** Data compared to the previous version altered.**

PH