

Safety Data Sheet according to GHS

Printing date 10.12.2022

Revision: 10.12.2022

1 Identification

- **Product identifier**
- **Trade name:** INDUSTRIAL SILICONE HR 400 ALUMINUM
- **Article number:** CWPPAO-00348
- **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.
 Water-react. 2 H261 In contact with water releases flammable gases.



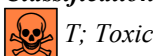
Muta. 1B H340 May cause genetic defects.
 Carc. 1B H350 May cause cancer.
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



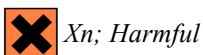
Acute Tox. 4 H332 Harmful if inhaled.
 Skin Irrit. 2 H315 Causes skin irritation.

Acute Tox. 5 H313 May be harmful in contact with skin.
 Aquatic Acute 3 H402 Harmful to aquatic life.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
 CWPPAO-00348

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



R45-46: May cause cancer. May cause heritable genetic damage.



R20/21-65: Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if swallowed.

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*Xi; Irritant**R38: Irritating to skin.**F; Highly flammable**R11-15: Highly flammable. Contact with water liberates extremely flammable gases.***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:***T Toxic**F Highly flammable***Hazard-determining components of labelling:***Solvent naphtha (petroleum), light arom.**Naphtha (petroleum), hydrotreated light**Dimethylbenzene***Risk phrases:***45 May cause cancer.**46 May cause heritable genetic damage.**11 Highly flammable.**15 Contact with water liberates extremely flammable gases.**20/21 Also harmful by inhalation and in contact with skin.**38 Irritating to skin.**65 Harmful: may cause lung damage if swallowed.***Safety phrases:***53 Avoid exposure - obtain special instructions before use.**1/2 Keep locked up and out of the reach of children.**29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.**36/37/39 Wear suitable protective clothing, gloves and eye/face protection.**43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.**45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).***Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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3 Composition / information on ingredients

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

· **Dangerous components:**

CAS: 1330-20-7	Dimethylbenzene  Xn R20/21  Xi R38 R10 <hr style="border-top: 1px dashed #000;"/>  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 Acute Tox. 5, H303	
CAS: 7429-90-5	aluminium powder (stabilised)  F R11-15  Flam. Sol. 1, H228; Water-react. 2, H261	
CAS: 1330-20-7	Dimethylbenzene  Xn R20/21  Xi R38  F R11 <hr style="border-top: 1px dashed #000;"/>  Acute Tox. 3, H311  Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 64742-16-1	Petroleum Resin  Xn R21/22 R53 <hr style="border-top: 1px dashed #000;"/> Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Chronic 4, H413	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.  T Carc. Cat. 2, Muta. Cat. 2 R45-46  Xn R65 <hr style="border-top: 1px dashed #000;"/>  Flam. Liq. 3, H226  Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304  Acute Tox. 4, H332 Acute Tox. 5, H313	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light  T Carc. Cat. 2, Muta. Cat. 2 R45-46  Xn R65 <hr style="border-top: 1px dashed #000;"/>  Flam. Liq. 2, H225  Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Acute 2, H401	
CAS: 100-41-4	ethylbenzene  Xn R20-48/20-65  F R11 <hr style="border-top: 1px dashed #000;"/>  Flam. Liq. 2, H225  STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H332 Acute Tox. 5, H303	

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

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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: Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water.**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: CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

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

Wear protective equipment. Keep unprotected persons away.

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.

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.

Do not flush with water or aqueous cleansing agents

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.

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Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 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: 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: 7429-90-5 aluminium powder (stabilised)

 PEL (USA) Long-term value: 15*; 5** mg/m³
 *Total dust; ** Respirable fraction

 REL (USA) Long-term value: 10* 5** mg/m³
 as Al*Total dust**Respirable/pyro powd./welding f.

 TLV (USA) Long-term value: 1* mg/m³
 as Al; *as respirable fraction, A4

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: 100-41-4 ethylbenzene

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

 REL (USA) Short-term value: 545 mg/m³, 125 ppm
 Long-term value: 435 mg/m³, 100 ppm

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

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· **Ingredients with biological limit values:**

CAS: 1330-20-7 Dimethylbenzene

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

CAS: 1330-20-7 Dimethylbenzene

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

CAS: 100-41-4 ethylbenzene

BEI (USA) 0.15 g/g creatinine
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **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.
 Store protective clothing separately.
 Avoid contact with the skin.
 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.

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 · **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:	140 °C

 · **Flash point:** < 0 °C

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

 · **Ignition temperature:** 400 °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:	1.1 Vol %
Upper:	7 Vol %

 · **Vapour pressure at 20 °C:** 6.7 hPa

Density at 20 °C:	1.02 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:	57.4 %
VOC (EC)	57.41 %

 · **Solids content:** 37.1 %

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· **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** Contact with water releases flammable gases.
- **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: 1330-20-7 Dimethylbenzene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

CAS: 100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **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
 Irritant
 Carcinogenic.
 The product can cause inheritable damage.

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.

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- **Additional ecological information:**
- **General notes:**
*Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into the ground.*
- **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 | UN3148 |
| · ADR, IMDG, IATA | |
| · UN proper shipping name | 3148 WATER-REACTIVE LIQUID, N.O.S. (aluminium powder (stabilised)) |
| · ADR | 3148 WATER-REACTIVE LIQUID, N.O.S. (aluminium powder (stabilised)) |
| · IMDG, IATA | WATER-REACTIVE LIQUID, N.O.S. (aluminium powder (stabilised)) |
| · Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
| |  |
| · Class | 4.3 Substances which, in contact with water, emit flammable gases. |
| · Label | 4.3 |
| · Packing group | II |
| · ADR, IMDG, IATA | |
| · Environmental hazards: | |
| · Marine pollutant: | Yes |
| · Special precautions for user | Warning: Substances which, in contact with water, emit flammable gases. |
| · Hazard identification number (Kemler code): | 429 |
| · EMS Number: | F-G,S-N |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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· Transport/Additional information:
· ADR

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

500 ml

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category

0

· IMDG

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

500 ml

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

 UN 3148 WATER-REACTIVE LIQUID, N.O.S.
 (ALUMINIUM POWDER (STABILISED)), 4.3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Philippines Inventory of Chemicals and Chemical Substances

CAS: 1330-20-7	Dimethylbenzene
CAS: 64742-16-1	Petroleum Resin
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light
CAS: 100-41-4	ethylbenzene

· 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

· National regulations:
· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· 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.

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

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- H312 Harmful in contact with skin.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
- R10 Flammable.
R11 Highly flammable.
R15 Contact with water liberates extremely flammable gases.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R21/22 Harmful in contact with skin and if swallowed.
R38 Irritating to skin.
R45 May cause cancer.
R46 May cause heritable genetic damage.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.

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

· **Contact:** Mr. Ong

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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
Flam. Sol. 1: Flammable solids – Category 1
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
Acute Tox. 5: Acute toxicity – Category 5
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B
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
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
· *** Data compared to the previous version altered.**

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