

Safety Data Sheet
According to 91/155 EEC

Printing date 12.07.2013

Revision: 22.11.2009

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** ISLAND 202 ACRYLIC THINNER

· **Article number:** I-1047

· **Manufacturer/Supplier:**

Treasure Island Industrial Corp.
No.2, 3rd Ave. S. Osmeña Blvd.
North Reclamation Area
Cebu City 6000
PHILIPPINES
doo@treasureisland.com.ph

· **Further information obtainable from:** Product safety department

· **Information in case of emergency:** During normal opening times: +63 32 232 05 13

2 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

	CELLUSOLVE ACETATE	Repr. Cat. 2; T; R 60-61-20/21/22 Danger: 3.7/1B Warning: 3.1.O/4, 3.1.D/4, 3.1.I/4	21.32%
108-10-1	methyl isobutyl ketone	Xn, Xi, F; R 11-20-36/37-66 Danger: 2.6/2 Warning: 3.1.I/4, 3.3/2A, 3.8/3	19.42%
67-64-1	Acetone	Xi, F; R 11-36-66-67 Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	17.35%
108-88-3	TOLUENE	Repr. Cat. 3; Xn, Xi, F; R 11-38-48/20-63-65-67 Danger: 2.6/2; 3.10/1, 3.7/2, 3.9/2 Warning: 3.2/2, 3.8/3	16.28%
78-93-3	MEK	Xi, F; R 11-36-66-67 Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	9.73%

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142-82-5	heptane	Xn, Xi, F, N; R 11-38-50/53-65-67 Danger: 2.6/2; 3.10/1 Warning: 4.1.A/1, 4.1.C/1; 3.2/2, 3.8/3 5.72%
110-82-7	cyclohexane	Xn, Xi, F, N; R 11-38-50/53-65-67 Danger: 2.6/2; 3.10/1 Warning: 4.1.A/1, 4.1.C/1; 3.2/2, 3.8/3 4.29%
110-54-3	n-hexane	Repr. Cat. 3; Xn, Xi, F, N; R 11-38-48/20-62-51/53-65-67 Danger: 2.6/2; 3.10/1, 3.7/2, 3.9/2 Warning: 3.2/2, 3.8/3 4.1.C/2 3.178%
108-87-2	methylcyclohexane	Xn, Xi, F, N; R 11-38-51/53-65-67 Danger: 2.6/2; 3.10/1 Warning: 3.2/2, 3.8/3 4.1.C/2 1.112%

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

3 Hazards identification

· **Hazard description:**



T Toxic

F Highly flammable

N Dangerous for the 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.

R 60 May impair fertility.

R 61 May cause harm to the unborn child.

R 11 Highly flammable.

R 20 Also harmful by inhalation.

R 36/38 Irritating to eyes and skin.

R 48/20 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63 Possible risk of harm to the unborn child.

R 65 Harmful: may cause lung damage if swallowed.

· **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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· **GHS label elements****Danger**

2.6/1 - Extremely flammable liquid and vapour.

**Danger**

3.7/1B - May damage fertility or the unborn child.

3.10/1 - May be fatal if swallowed and enters airways.

3.9/2 - May cause damage to organs through prolonged or repeated exposure.

**Warning**

3.1/4 - Harmful if inhaled.

3.2/2 - Causes skin irritation.

3.3/2A - Causes serious eye irritation.



4.1/2 - Toxic to aquatic life with long lasting effects.

· **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

· **Response:**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **Storage:**

Store locked up.

· **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 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.

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- **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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
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.
- **Measures for cleaning/collecting:**
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

7 Handling and storage

- **Handling:**
- **Information 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:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.
Keep respiratory protective device available.

- **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.

8 Exposure controls/personal protection

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

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

CELLUSOLVE ACETATE

PEL (USA)	540 mg/m ³ , 100 ppm
	Skin
REL (USA)	2.7 mg/m ³ , 0.5 ppm
	Skin
TLV (USA)	27 mg/m ³ , 5 ppm
	Skin; BEI

108-10-1 methyl isobutyl ketone

PEL (USA)	410 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 300 mg/m ³ , 75 ppm
	Long-term value: 205 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 307 mg/m ³ , 75 ppm
	Long-term value: (205) 82 mg/m ³ , (50) NIC-20 ppm
	(BEI);NIC-A3

67-64-1 Acetone

PEL (USA)	2400 mg/m ³ , 1000 ppm
REL (USA)	590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1782 mg/m ³ , 750 ppm
	Long-term value: 1188 mg/m ³ , 500 ppm
	BEI

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108-88-3 TOLUENE

PEL (USA) Short-term value: C 300; 500* ppm
Long-term value: 200 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) 75 mg/m³, 20 ppm
NIC-BEI

78-93-3 MEK

PEL (USA) 590 mg/m³, 200 ppm
REL (USA) Short-term value: 885 mg/m³, 300 ppm
Long-term value: 590 mg/m³, 200 ppm
TLV (USA) Short-term value: 885 mg/m³, 300 ppm
Long-term value: 590 mg/m³, 200 ppm
BEI

142-82-5 heptane

PEL (USA) 2000 mg/m³, 500 ppm
REL (USA) Short-term value: C 1800* mg/m³, C 440* ppm
Long-term value: 350 mg/m³, 85 ppm
*15-min
TLV (USA) Short-term value: 2050 mg/m³, 500 ppm
Long-term value: 1640 mg/m³, 400 ppm

110-82-7 cyclohexane

PEL (USA) 1050 mg/m³, 300 ppm
REL (USA) 1050 mg/m³, 300 ppm
TLV (USA) 344 mg/m³, 100 ppm

110-54-3 n-hexane

PEL (USA) 1800 mg/m³, 500 ppm
REL (USA) 180 mg/m³, 50 ppm
TLV (USA) 176 mg/m³, 50 ppm
Skin; BEI

108-87-2 methylcyclohexane

PEL (USA) 2000 mg/m³, 500 ppm
REL (USA) 1600 mg/m³, 400 ppm
TLV (USA) 1610 mg/m³, 400 ppm

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- **Additional information:** The lists valid during the making were used as basis.
- **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 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.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

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· Change in condition <i>Melting point/Melting range: Undetermined.</i> <i>Boiling point/Boiling range: > 34°C</i>	
· Flash point:	-26°C
· Ignition temperature:	215°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
<i>Lower:</i>	1.2 Vol %
<i>Upper:</i>	13.0 Vol %
· Vapour pressure at 20°C:	233 hPa
· Density at 20°C:	0.82 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Solvent content:	
<i>Organic solvents:</i>	98.4 %
<i>VOC (EC)</i>	98.40 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information· **Acute toxicity:**· **LD/LC50 values relevant for classification:****CELLUSOLVE ACETATE**

Oral	LD50	-3900 mg/kg (rat)
Dermal	LD50	10300 mg/kg (rabbit)

108-10-1 methyl isobutyl ketone

Oral	LD50	2080 mg/kg (rat)
Dermal	LD50	16000 mg/kg (rab)
Inhalative	LC50/4 h	8.3-16.6 mg/l (rat)

108-88-3 TOLUENE

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

110-82-7 cyclohexane

Oral	LD50	12705 mg/kg (rat)
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· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing 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**12 Ecological information**· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **Additional ecological information:**· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **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

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Hazard label:** 3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1993

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- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** Yes
Symbol (fish and tree)
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label** 3
- **Packaging group:** II
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)

- **UN "Model Regulation":** UN1993, FLAMMABLE LIQUID, N.O.S., 3, II
- **Environmental hazards:** Product contains environmentally hazardous substances: heptane, cyclohexane

15 Regulatory information

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

All ingredients are listed.

- **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

N Dangerous for the environment

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

TOLUENE

CELLUSOLVE ACETATE

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· **Risk phrases:**

- 60 May impair fertility.
- 61 May cause harm to the unborn child.
- 11 Highly flammable.
- 20 Also harmful by inhalation.
- 36/38 Irritating to eyes and skin.
- 48/20 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.
- 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.

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 R-phrases**

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 38 Irritating to skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 60 May impair fertility.
- 61 May cause harm to the unborn child.
- 62 Possible risk of impaired fertility.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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

· **Contact:** Mr. Ong

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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