

date of issue : 21/01/2013

## Safety Data Sheet

### 1. Product and Company Identification

Product name :Kiwami Putty For Bumper #908

Name of supplier :SOLAR CO., LTD.

Address :1-7, Nunobiki-cho-2-chome, Chuo-ku, Kobe, Hyogo-Pref. 651-0097 JAPAN

Division :R & D DEPT.

Phone :+81-790-49-2366

FAX :+81-790-49-1588

Product code(SDS NO) :EN400940-4

### 2. Hazards identification

GHS classification and label elements of the product

GHS classification

PHYSICAL HAZARDS

Flammable solid : Category 1

HEALTH HAZARDS

Skin corrosion/irritation : Category 2

Eye damage /eye irritation : Category 2

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity-single exposure : Category 1

Specific target organ toxicity-repeated exposure : Category 1

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment-acute toxicity : Category 3



Signal word : Danger

HAZARD STATEMENT

Flammable solid

Causes skin irritation.

Causes eye irritation

Suspected of causing genetic defects

Suspected of causing cancer

May damage fertility or the unborn child

Causes damage to organs after single exposure.

Causes damage to organs following repeated exposure.

Harmful to aquatic life

PRECAUTIONARY STATEMENT

Prevention

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

Use explosion-proof electrical/ventilating/lighting equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

Use personal protective equipment as required.

## Response

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash before reuse.

IF ON SKIN: Wash with plenty of soap and water.

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

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use appropriate media other than water for extinction.

## Storage

Store locked up.

## Disposal

Dispose of contents/container in accordance with local/national regulation.

## 3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Ingredient name	content(%)	CAS No.	PRTR law No, Japan
Unsaturated polyester resin	20 - 25	Non Public	-
Styrene	18	100-42-5	1-240
Cobalt naphthenate	<1.0	61789-51-3	1-132
Cobalt 2-ethylhexanoate		136-52-7	1-132
Xylene (Mixture of isomers)	<0.3	1330-20-7	1-080
Ethylbenzene	<1.0	100-41-4	1-053
Titanium dioxide	1 - 5	13463-67-7	-
Amorphous silica	0.1 - 1	7631-86-9	-
Extender · Hollow powder	50 - 55	Non Public	-
Additive	1 - 5	Non Public	-

## 4. First-aid measures

## IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

## IF ON SKIN(or hair)

Wash with plenty of soap and water. Never use solvent or thinner.

If you observe unusual symptom, have irritation/pain and/or feel unwell, seek medical advice.

## IF IN EYES :

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

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

## 5. Fire-fighting measures

## Suitable extinguishing media

In case of fire, use water mist, foam, dry powder or CO2.

## Specific fire-fighting measures

Use appointed fire extinguisher.

Remove flammable matters quickly from nearby.

Apply water from a safe distance to cool and protect surrounding area.

Special protective equipment and precautions for fire-fighters  
 Fire extinguishing work has to be done from windward.  
 Wear proper protective equipment.

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#### 6. Accidental Release Measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Keep unauthorized personnel away.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for neutralization, containment and cleaning up

Place in a covered container.

Use non-sparking tools to collect absorbed material.

Preventive measures for secondary accident

Prepare extinguishers before catching fire.

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#### 7. Handling and Storage

Precautions for safe handling

Preventive measures

Use personal protective equipment as required.

Take precautionary measures against static discharge.

Safety treatments

Used waste or spray-dust has to be dipped in water until disposition.

Safety Measures/Incompatibility

Handle in good ventilation.

Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Protect from sunlight. Store in a well-ventilated place.

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#### 8. Exposure Controls/Personal Protection

Control parameters e.g. occupational exposure limit values or biological limit values

Control value

(Styrene)

Japan control value (2004) <= 20ppm

(Xylene (Mixture of isomers))

Japan control value (2004) <= 50ppm

Adopted value

(Ethylbenzene)

JSOH(2001) 50ppm; 217mg/m<sup>3</sup>

(Styrene)

JSOH(1999) 20ppm; 85mg/m<sup>3</sup> (dermal)

(Xylene (Mixture of isomers))

JSOH(2001) 50ppm; 217mg/m<sup>3</sup>

(Cobalt 2-ethylhexanoate)

JSOH(1992) 0.05mg-Co/m<sup>3</sup>

(Cobalt naphthenate)

JSOH(1992) 0.05mg-Co/m<sup>3</sup>

(Ethylbenzene)

ACGIH(1998) TWA: 100ppm

STEL: 125ppm (URT irr; CNS impair; eye irr)

(Styrene)

ACGIH(1996) TWA: 20ppm  
 STEL: 40ppm (CNS impair; URT irr; periph neuropathy)  
 (Xylene (Mixture of isomers))  
 ACGIH(1992) TWA: 100ppm  
 STEL: 150ppm (URT & eye irr; CNS impair)  
 (Titanium dioxide)  
 ACGIH(1992) TWA: 10mg/m3 (LRT irr)

Appropriate engineering controls  
 Do not use in areas without adequate ventilation.  
 Exhaust/ventilator should be available.

Protective equipment  
 Respiratory protection  
 Wear respiratory protection.  
 Hand protection  
 Wear protective gloves.  
 Eye protection  
 Wear eye/face protection.  
 Skin and body protection  
 Wear protective gloves/clothing

## 9. Physical and Chemical Properties

Physical properties  
 Appearance :paste  
 Color :gray  
 Flash point :34 (Seta closed style)  
 Specific gravity :ca 1.55

## 10. Stability and Reactivity

Stability  
 Stable under normal storage/handling conditions.

## 11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

### Acute toxicity

Oral toxicity component(s) data  
 (Ethylbenzene)  
 rat LD50=3500 mg/kg (EHC 186 (1996))  
 (Styrene)  
 rat LD50 2,650 mg/kg (RTECS (2005))  
 (Xylene (Mixture of isomers))  
 rat LD50=3,500 mg/kg (evaluated by EPA\_JP vol.1 (2002))  
 (Cobalt naphthenate)  
 rat 3900 mg/kg (JPMA 5th ed.)

### Inhalation toxicity component(s) data

(Ethylbenzene)  
 vapor : rat LC50=17.2 mg/L(ATSDR (1999), EHC 186 (1996))=4,000 ppm  
 (Styrene)  
 vapor : rat LC50 = 2770 ppm/4hr (cal.)

### Labor standard law, Japan; Toxic

Styrene; Xylene (Mixture of isomers); Cobalt 2-ethylhexanoate; Cobalt naphthenate

### Irritant properties

Skin corrosion/Irritation component(s) data  
 (Ethylbenzene)  
 rabbit 15 mg/24H open ; MILD

(Styrene)  
 rabbit 500 mg open ; MILD  
 (Xylene (Mixture of isomers))  
 rabbit 500 mg/24H ; MODERATE  
 (Titanium dioxide)  
 human 0.3mg/3D-I ; MILD  
 Serious eye damage /irritation  
 Eye damage/irritation component(s) data  
 (Xylene (Mixture of isomers))  
 rabbit 87 mg ; MILD rabbit 5 mg/24H ; SEVERE  
 Mutagenic effects  
 (Styrene) ACGIH (2001) et al  
 Carcinogenic effects  
 (Ethylbenzene)  
 IARC-Gr.2B ; Possibly carcinogenic to humans.  
 (Styrene)  
 IARC-Gr.2B ; Possibly carcinogenic to humans.  
 (Xylene (Mixture of isomers))  
 IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.  
 (Titanium dioxide)  
 IARC-Gr.2B ; Possibly carcinogenic to humans.  
 (Amorphous silica)  
 IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.  
 (Ethylbenzene)  
 ACGIH-A3(1998) : Confirmed Animal Carcinogen with Unknown Relevance to Humans  
 (Styrene)  
 ACGIH-A4(1996) : Not Classifiable as a Human Carcinogen  
 (Xylene (Mixture of isomers))  
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen  
 (Titanium dioxide)  
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen  
 (Ethylbenzene)  
 JSOH-2B; Insufficient Evidence of Carcinogenicity for Humans  
 (Styrene)  
 JSOH-2B; Insufficient Evidence of Carcinogenicity for Humans  
 Toxicity for reproduction  
 (Styrene) CERI/NITE hazard assessment No.52 (2004)  
 Delayed and immediate effects and also chronic effects from short- and long-term exposure  
 Specific target organ toxicity (single exposure cat.1)  
 (Styrene) CNS(central nervous system)  
 Specific target organ toxicity (repeated exposure cat.1)  
 (Styrene) blood;nervous system;liver;respiratory apparatus/system  
 Aspiration hazard  
 (Styrene) ID151(2006), hydrocarbon, kinematic viscosity =0.772 mm<sup>2</sup>/s (25 C) (CERI cal.)

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## 12. Ecological Information

### Ecotoxicity

#### Aquatic toxicity

Harmful to aquatic life

(Ethylbenzene)

Crustacea (Penaeus aztecus) LC50=0.4mg/L/96hr (CERI/NITE, 2006)

(Styrene)

Fish (fat head minnow) LC50=4.02 mg/L/96hr (CERI/NITE, 2004)

(Xylene (Mixture of isomers))

Fish(rainbow trout) LC50=3.3mg/L/96hr (CERI\_NITE, 2005)

(Titanium dioxide)

Crustacea(Daphnia magna) EC50 > 1000mg/L/48hr (AQUIRE, 2003)

#### Water solubility

(Ethylbenzene)

0.015 g/100 ml (20 C) (ICSC, 2007)

(Styrene)

0.03 g/100 ml (20 C) (ICSC, 2006)

(Titanium dioxide)

none (HSDB, 2004)

(Cobalt naphthenate)

none (ICSC, 2000)

#### Persistence and degradability

(Ethylbenzene)

Easily degrade and rapidly vaporize (SIDS, 2005)

(Styrene)

BOD\_Degradation : 100%(Registered chemicals data check & review, Japan)

#### Bioaccumulative potential

(Ethylbenzene)

log Pow=3.1 (ICSC, 2007)

(Styrene)

log Pow=2.95 (PHYSPROP Database, 2005)

(Xylene (Mixture of isomers))

log Pow=3.16 (PHYSPROP Database, 2005)

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### 13. Disposal Considerations

#### Waste residues

Avoid release to the environment (- if this is not the intended use).

Dispose of contents/container in accordance with local/national regulation.

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### 14. Transport Information

#### UN No, UN CLASS

UN No :1325

UN CLASS :4.1

PG :III

Proper shipping name :FLAMMABLE SOLID, ORGANIC, N.O.S.

ERG GUIDE NO :133

#### Sea pollutants control law

Noxious Liquid ; Cat. Y :Ethylbenzene; Styrene; Xylene (Mixture of isomers)

Noxious Liquid ; Cat. Z :Titanium dioxide

#### Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

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### 15. Regulatory Information

#### Industrial Safety and Health law, Japan

Organic Solvents Class II :Styrene

Harmful substances to be indicated :Styrene; Ethylbenzene

Flammable

Chemical name et al should be informed :Ethylbenzene;Styrene;Xylene (Mixture of isomers);Titanium dioxide;Cobalt 2-ethylhexanoate;Cobalt naphthenate;Amorphous silica

#### PRTR law, Japan

Listed chemicals Gr.1 :Styrene

#### Fire protection law, Japan

Flammable solids : flammable solids ( Class III )

Ship cargo control law, Japan

Flammable solids, self-reactive substances and solid desensitised explosives

Air cargo control law, Japan

Flammable solids, self-reactive substances and solid desensitised explosives

Chemical Substances Control Law, Japan

Priority Assessment Chemical Substances :Styrene

Malodorants control law, Japan

TLVs at the border ; 0.4 - 2 ppm

Styrene

TLVs at the border ; 1 - 5 ppm

Xylene (Mixture of isomers)

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#### 16. Other information

##### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2011 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/monoeval/grlist.html>

Supplier's data/information

ezCric(Retrieval System/ Japan Chemical Database Ltd.)

##### Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own test