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Safety Data Sheets

1. Product and Company Identification

Product name :PIMPLE 595

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.

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Product code(SDS NO) :EN504010-3

2. Hazards identification

GHS classification and label elements of the product

GHS classification

PHYSICAL HAZARDS

Flammable liquids : Category 2

HEALTH HAZARDS

Skin corrosion/irritation : Category 2

Eye damage /eye irritation : 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 2

Hazardous to the aquatic environment-chronic toxicity : Category 2



Signal word : Danger

HAZARD STATEMENT

Highly flammable liquid and Vapor

Causes skin irritation.

Causes eye irritation

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.

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

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

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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.
 Collect spillage.
 IF ON SKIN: Wash with plenty of soap and water.
 IF ON SKIN (or hair): 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.
 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.
 Store in well-ventilated place. Keep cool .

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
Modified silicone resin	15 - 20	Non Public	-
Plasticizer	1 - 5	Non Public	-
Xylene (Mixture of isomers)	11	1330-20-7	1-080
Ethylbenzene	9.0	100-41-4	1-053
Solvent	5 - 10	Non Public	-
Naphthalene	<1.0	91-20-3	1-302
Filler · Pigment	40 - 45	Non Public	-
Titanium dioxide	1 - 5	13463-67-7	-
n-Butanol	<1.0	71-36-3	-
Di-n-Butylbis(2,4-pentanedionate)tin	<1.0	22673-19-4	1-239
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.

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.

7. Handling and Storage

Precautions for safe handling

Preventive measures

Use personal protective equipment as required.

Take precautionary measures against static discharge.

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.

8. Exposure Controls/Personal Protection

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

Control value

(Xylene (Mixture of isomers))

Japan control value (2004) <= 50ppm

(n-Butanol)

Japan control value (1995)<= 25ppm

Adopted value

(Ethylbenzene)

JSOH(2001) 50ppm; 217mg/m³

(Xylene (Mixture of isomers))

JSOH(2001) 50ppm; 217mg/m³

(n-Butanol)

JSOH(1987) (ceiling limit) 50ppm; 150mg/m³ (dermal)

(Ethylbenzene)

ACGIH(1998) TWA: 100ppm

STEL: 125ppm (URT irr; CNS impair; eye irr)
 (Xylene (Mixture of isomers))
 ACGIH(1992) TWA: 100ppm
 STEL: 150ppm (URT & eye irr; CNS impair)
 (Titanium dioxide)
 ACGIH(1992) TWA: 10mg/m3 (LRT irr)
 (Di-n-Butylbis(2,4-pentanedionate)tin)
 ACGIH(1992) TWA: 0.1mg-Sn/m3
 STEL: 0.2mg-Sn/m3 (Skin)(Pneumoconiosis; eye & URT irr; headache; nausea)
 (n-Butanol)
 ACGIH(1998) TWA: 20ppm (Eye & URT irr)
 (Naphthalene)
 ACGIH(1992) TWA: 10ppm
 STEL: 15ppm (Skin)(Hematologic eff; URT & eye irr; eye dam)

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 :pale gray
 Flash point :21 (Seta closed style)
 Specific gravity :ca 1.25

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))
 (Xylene (Mixture of isomers))
 rat LD50=3,500 mg/kg (evaluated by EPA_JP vol.1 (2002))
 (n-Butanol)
 rat LD50=1227mg/kg (cal.)
 (Naphthalene)
 rat LD50=490 - 1800 mg/kg (Patty (5th, 2001) et al)

Dermal toxicity component(s) data

(n-Butanol)
 rabbit LD50=3402 mg/kg (SIDS, 2004)

Inhalation toxicity component(s) data

(Ethylbenzene)
 vapor : rat LC50=17.2 mg/L(ATSDR (1999), EHC 186 (1996))=4,000 ppm
 Labor standard law, Japan; Toxic
 Xylene (Mixture of isomers); Di-n-Butylbis(2,4-pentanedionate)tin

Irritant properties

Skin corrosion/Irritation component(s) data

(Ethylbenzene)
 rabbit 15 mg/24H open ; MILD
 (Xylene (Mixture of isomers))
 rabbit 500 mg/24H ; MODERATE
 (Titanium dioxide)
 human 0.3mg/3D-I ; MILD
 (n-Butanol)
 rabbit 405 mg/24H ; MODERATE
 (Naphthalene)
 rabbit 495 mg open ; MILD

Serious eye damage /irritation

Eye damage/irritation component(s) data

(Xylene (Mixture of isomers))
 rabbit 87 mg ; MILD rabbit 5 mg/24H ; SEVERE
 (n-Butanol)
 rabbit 1.62mg ; SEVERE
 (Naphthalene)
 rabbit 100 mg ; MILD

Carcinogenic effects

(Ethylbenzene)
 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.
 (Naphthalene)
 IARC-Gr.2B ; Possibly carcinogenic to humans.
 (Ethylbenzene)
 ACGIH-A3(1998) : Confirmed Animal Carcinogen with Unknown Relevance to Humans
 (Xylene (Mixture of isomers))
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen
 (Titanium dioxide)
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen
 (Di-n-Butylbis(2,4-pentanedionate)tin)
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen
 (Naphthalene)
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen
 (Ethylbenzene)
 JSOH-2B; Insufficient Evidence of Carcinogenicity for Humans
 (Naphthalene)
 EU-Category 3; Causes concern for Human carcinogenic effect

Toxicity for reproduction

(Xylene (Mixture of isomers)) EHC 190 (1997)
 (Ethylbenzene) SIDS (2005) et al

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Specific target organ toxicity (single exposure cat.1)
 (Xylene (Mixture of isomers)) respiratory apparatus/system; liver; CNS; kidney (CERI/NITE
 hazard assessment (2004) et al)

Specific target organ toxicity (repeated exposure cat.1)
(Xylene (Mixture of isomers)) respiratory apparatus/system; nerve/nervous system (
CERI/NITE hazard assessment (2004) et al)

12. Ecological Information

Ecotoxicity

Aquatic toxicity

Toxic to aquatic life
Toxic to aquatic life with long lasting effects
(Ethylbenzene)
Crustacea (Penaeus aztecus) LC50=0.4mg/L/96hr (CERI/NITE, 2006)
(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)
(n-Butanol)
Fish (top minnow) LC50 > 100 mg/L/96hr (EPA_Japan, 1996)
(Naphthalene)
Fish (rainbow trout) LC50 = 0.77mg/L/96hr (EHC 202, 1998)

Water solubility

(Ethylbenzene)
0.015 g/100 ml (20 C) (ICSC, 2007)
(Titanium dioxide)
none (HSDB, 2004)
(n-Butanol)
63.2 g/L (PHYSPROP Database, 2005)
(Naphthalene)
none (ICSC, 2005)

Persistence and degradability

(Ethylbenzene)
Easily degrade and rapidly vaporize (SIDS, 2005)
(Naphthalene)
BOD_Degradation : 2%(Registered chemicals data check & review, Japan)

Bioaccumulative potential

(Ethylbenzene)
log Pow=3.1 (ICSC, 2007)
(Xylene (Mixture of isomers))
log Pow=3.16 (PHYSPROP Database, 2005)
(n-Butanol)
log Pow=0.9 (ICSC, 2005)
(Naphthalene)
log Pow=3.3 (ICSC, 2005) ; BCF=168(Check & Review, Japan)

13. Disposal Considerations

Disposal methods

Avoid release to the environment (- if this is not the intended use).
Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS

UN No :1993
UN CLASS :3
PG :II
Proper shipping name :FLAMMABLE LIQUID, N.O.S.

ERG GUIDE NO :128

Sea pollutants control law

Noxious Liquid ; Cat. X :Naphthalene

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

Noxious Liquid ; Cat. Z :Titanium dioxide; n-Butanol

Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

15. Regulatory Information

Industrial Safety and Health law, Japan

Specified chemical substances Gr.2 : Ethylbenzene

Organic Solvents Class II :Xylene (Mixture of isomers)

Harmful substances to be indicated :Xylene (Mixture of isomers); Ethylbenzene

Flammable

Chemical name et al should be informed :n-Butanol; Ethylbenzene; Xylene (Mixture of isomers)

;Titanium dioxide; Di-n-Butylbis(2,4-pentanedionate)tin; Naphthalene

PRTR law, Japan

Listed chemicals Gr.1 :Ethylbenzene; Xylene (Mixture of isomers)

Fire protection law, Japan

Flammable solids : flammable solids (Class III)

Ship cargo control law, Japan

Flammable liquids

Air cargo control law, Japan

Flammable liquids

Chemical Substances Control Law, Japan

Priority Assessment Chemical Substances :Ethylbenzene

Malodorants control law, Japan

TLVs at the border ; 1 - 5 ppm

Xylene (Mixture of isomers)

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