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Material Safety Data Sheet

1. Product and Company Identification

Product name :SABIN 30Y

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

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Product code(MSDS NO) :EN920060-2

2. Hazards Identification

GHS classification and label elements of the product

GHS classification

PHYSICAL HAZARDS

Flammable liquids : Category 3

HEALTH HAZARDS

Skin corrosion/irritation : Category 2

Eye damage /eye irritation : Category 2

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity-single exposure : Category 1

Specific target organ toxicity-single exposure : Category 2

Specific target organ toxicity-repeated exposure : Category 1

ENVIRONMENTAL HAZARDS

Hazardous to the aquatic environment-acute toxicity : Category 3

Hazardous to the aquatic environment-chronic toxicity : Category 3

Signal word :Danger

HAZARD STATEMENT

Flammable liquid and Vapor

Causes skin irritation.

Causes eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

May damage fertility or the unborn child

Causes damage to blood/blood system, CNS(central nervous system), kidney, liver and respiratory apparatus/system

May causes damage to eye

Causes damage to blood/blood system, nerve/nervous system, respiratory apparatus/system, eye and nasal/nasal cavity through prolonged or repeated exposure.

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

PRECATIONARY STATEMENT

Prevention

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting equipment and 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.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment (- if this is not the intended use).
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 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 or rash 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 a well-ventilated place. Keep cool.

Disposal

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

Class name of hazardous chemicals for MSDS in Japan

Flammable liquids

3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Ingredient name	content(%)	CAS No.	PRTR law No, Japan
Heavy aromatic naphtha solvent	15 - 20	64742-94-5	
Naphthalene	1.7	91-20-3	1-302
hydrodesulfurized heavy naphtha	25 - 30	64742-82-1	
Paraffin	1 - 5	62321-60-7	
Xylene (Mixture of isomers)	1.4	1330-20-7	1-80
Pseudocumene	1.4	95-63-6	1-296
Carbon black	1 - 5	1333-86-4	
Other	40 - 45		

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.

Skin contact

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

(Exposure Control for handling personnel)

Use personal protective equipment as required.

(Protective measures against fire & explosion)

Take precautionary measures against static discharge.

Safety Measures/Incompatibility

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

Handle in good ventilation.

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 Control/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

Adopted value

(Pseudocumene)JSOH(1984) 25ppm; 120mg/m3
(Xylene (Mixture of isomers))JSOH(2001) 50ppm; 217mg/m3
(Carbon black)ACGIH (1985) TWA: 3.5mg/m3
(Naphthalene)ACGIH (1992) TWA: 10ppm STEL: 15ppm (Skin)(Hematologic eff; URT & eye irr; eye dam)
(Xylene (Mixture of isomers))ACGIH (1992) TWA: 100ppm STEL: 150ppm (URT & eye irr; CNS impair)

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

Individual protection measures, such as personal 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 :viscous liquid
Color :black
Flash point :No data
Specific gravity :ca 0.85

10. Stability and Reactivity

Chemical stability
Stable under normal storage/handling conditions.
Conditions to avoid
High temperature
Incompatible materials
Oxidizing agents

11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics
Acute toxicity
Oral toxicity component(s) data
(Naphthalene)mouse LD50 533 mg/kg
Inhalation toxicity component(s) data
(Xylene (Mixture of isomers))rat LC50 6700ppm/4H
(Pseudocumene)rat LC50 18g/ m3 /4H
Irritant properties
Skin corrosion/Irritation component(s) data
(Naphthalene)rabbit 495 mg open ; MILD
(Xylene (Mixture of isomers))rabbit 500 mg/24H ; MODERATE
Serious eye damage /eye irritation
Eye damage/irritation component(s) data
(Naphthalene)rabbit 100 mg ; MILD
(Xylene (Mixture of isomers))rabbit 87 mg ; MILD rabbit 5 mg/24H ; SEVERE
Carcinogenic effects
(Carbon black)IARC-Gr.2B ; Possibly carcinogenic to humans.
(Naphthalene)IARC-Gr.2B ; Possibly carcinogenic to humans.

(Xylene (Mixture of isomers))IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.
(Carbon black)ACGIH-A4(1985) : Not Classifiable as a Human Carcinogen
(Naphthalene)ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen
(Xylene (Mixture of isomers))ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen
(Carbon black)JCIH-2B; Insufficient Evidence of Carcinogenicity for Humans
(Naphthalene)EPA "Cannot Be Determined" to be carcinogenic(1996)
(Xylene (Mixture of isomers))EPA "Inadequate Information to Assess Carcinogenic Potencial"(2005)
(Naphthalene)NTP-Reasonably Anticipated To Be Human Carcinogen
(Naphthalene)EU-Category 3; Causes concern for Human carcinogenic effect

12. Ecological Information

Ecotoxicity

Acuatic toxicity

Harmful to aquatic life
Harmful to aquatic life with long lasting effects

Acuatic toxicity(component(s) data)

(Carbon black)Crustacea (Daphnia magna) EC50 > 5600mg/L/24hr (IUCLID, 2000)
(Naphthalene)Fish (rainbow trout) LC50=0.11mg/L/96hr (CERI hazard data book, 1997)
(Xylene (Mixture of isomers))Fish (rainbow trout) LC50=3.3mg/L/96hr (CERI_NITE report, 2005)

Water solubility

(Carbon black)none (ICSC, 1995)
(Naphthalene)none (ICSC, 2005)
(Pseudocumene)very poor (ICSC, 2002)

Persistence and degradability

(Naphthalene)BOD_Degradation : 2%(Registered chemicals safty check & review data, Japan)

Bioaccumulative potential

(Naphthalene)log Pow=3.3 (ICSC, 2005) ; BCF=168(Check & Review, Japan)
(Pseudocumene)log Pow=3.8 (ICSC, 2002)
(Xylene (Mixture of isomers))log Pow=3.16 (PHYSPROP Database, 2005)

13. Disposal Considerations

Description of waste residues and information on their safe handling and methods of disposal

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 :III
Proper shipping name :FLAMMABLE LIQUID, N.O.S.

ERG GUIDE NO :128

Noxious Liquid ; Cat. X :Naphthalene
Noxious Liquid ; Cat. Y :Xylene (Mixture of isomers)
Flammable Liquid :Xylene (Mixture of isomers)

Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

15. Regulatory Information

Industrial Safety and Health law, Japan

Organic Solvents Class III :Solvent naphtha
Harmful substances to be indicated :Xylene (Mixture of isomers)
Chemical name et al should be informed :Carbon black;Xylene (Mixture of isomers);Pseudocumene;Naphthalene;Paraffin;Solvent naphtha
Labor standard law, Japan; Toxic :Naphthalene
Labor safety and hygiene control law, Japan; Mutagenic existing chemicals :Naphthalene

PRTR law, Japan

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

Fire protection law, Japan

Petroleums Gr.2, (Class III)

Ship cargo control law, Japan

Flammable liquids

Air cargo control law, Japan

Flammable liquids
Dangerous goods forbidden from transport
Carbon black

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16. Other Information/References

Reference Book

Recommendations on the TRANSPORT OF DANGEROUS GOODS 15th edit. UN
2008 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2008 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/monoeval/grlist.html
JIS Z 7250 2005
Supplier's SDS
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