

Material Safety Data Sheet

1. Product and Company Identification

Product name :SABIN 30Y (Aerosol)

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(MSDS NO) :EN920050-2

2. Hazards Identification

GHS classification and label elements of the product

GHS classification(Stock solution)

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

GHS classification(Fill gas)

PHYSICAL HAZARDS

Flammable aerosols : Category 2

HEALTH HAZARDS

Specific target organ toxicity – single exposure; Narcosis Category 3



Signal word :Danger

HAZARD STATEMENT

Flammable aerosol

May cause drowsiness and dizziness

PRECAUTIONARY 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

(Stock solution)

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		

Fill gas: DME 50vol%

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.

Do not handle in the place of 40°C or more.

Do not use continuously for 30 seconds or more.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

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

Storage temperature upper limit :40°C

Incompatible storage condition

May cause corrode or explosion when keeping in locations of high humidity.

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 (Stock solution)

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 Potential"(2005)

(Naphthalene)NTP-Reasonably Anticipated To Be Human Carcinogen

(Naphthalene)EU-Category 3; Causes concern for Human carcinogenic effect

12. Ecological Information

Ecotoxicity

Aquatic toxicity

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

Aquatic 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 :1950

UN CLASS :2.1

Proper shipping name : AEROSOLS

ERG GUIDE NO :126

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.

Avoid temperature above: 40°C

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

Gases

Air cargo control law, Japan

Gases

Dangerous goods forbidden from transport

Carbon black

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