

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation, 2025_General_Solvent_US-2, Mar/03/2025

Date of issue for the 1st edition : Feb/28/2025 Date of revision : Mar/03/2025

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: General Solvent Product code (SDS NO): 2025 General Solvent US-2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the product: Industrial use Details of the supplier of the safety data sheet Manufacturer/Supplier: Asahi Graphic Corporation Address: KOHGA Bldg. 3F, 4-23-8 Ebisu, Shibuya-ku, Tokyo, 150-0013 Japan Telephone number: +81-3-6878-8985 FAX: +81-3-5424-3018 Emergency telephone number: +81-3-6878-8985 Section 2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200) PHYSICAL AND CHEMICAL HAZARDS Flammable liquids: Category 3 **HEALTH HAZARDS** Skin corrosion/irritation: Category 2 Serious eye damage/eye irritation: Category 2 Germ cell mutagenicity: Category 1B

Carcinogenicity: Category 1B

Specific target organ toxicity - single exposure: Category 3 (Respiratory tract irritation) Specific target organ toxicity - repeated exposure: Category 2 (hearing organs)

Aspiration hazard: Category 1

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, long-term (chronic): Category 2 (Note) GHS classification without description: Not classified/Classification not possible Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)



Signal word: Danger

HAZARD STATEMENT H226 Flammable liquid and vapor

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H340 May cause genetic defects
- H350 May cause cancer
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure (hearing organs)
- H304 May be fatal if swallowed and enters airways
- H411 Toxic to aquatic life with long lasting effects



ーSDS作成/容器ラベル作成支援システムー

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,

2025_General_Solvent_US-2, Mar/03/2025

PRECAUTIONARY STATEMENT

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P370 + P378 In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

P321 Specific treatment is required.

P314 Get medical advice/attention if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P331 Do NOT induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.



--SDS作成/容器ラベル作成支援システム--

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,

2025_General_Solvent_US-2, Mar/03/2025

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	CAS No.	Content (%)
Solvent naphtha	64742-95-6	55 - 60
1,2,4-Trimethylbenzene	95-63-6	15 - 20
1,3,5-Trimethylbenzene	108-67-8	5 - 10
Xylene (Mixture of isomers)	1330-20-7	5 - 10
Ethylbenzene	100-41-4	5 - 10
Cumene	98-82-8	1 - 5

Note : The figures shown above are not the specifications of the product.

Section 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

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/doctor/physician.

Most important symptoms and effects, both acute and delayed

(Symptoms when inhalation or ingestion)

Nausea, Headache, Drowsiness, Cough, Dizziness, Sore throat, Confusion

(Symptoms when skin and/or eye contact)

Dry skin, Conjunctival redness of the eyes

Indication of any immediate medical attention and special treatment needed

Specific treatment is required.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Do not use direct water jet.

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

Containers may explode when heated.

Vapors may form explosive mixtures with air.



―SDS作成/容器ラベル作成支援システム―

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,

2025_General_Solvent_US-2, Mar/03/2025

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Cool container with water spray.

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

Prevent extinguishing water from entering sewers.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated

in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Evacuate area.

Keep unauthorized personnel away.

Wear an air-supplied respirator for handling a spill at a poor ventilated workplace.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

Use clean non-sparking tools to collect absorbed material.

Preventive measures for secondary accident

Collect spillage.

Prepare extinguishers before catching fire.

Stop leak if safe to do so.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Prevent entry into waterways, sewers, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.



SDS作成/容器ラベル作成支援システム

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,

2025_General_Solvent_US-2, Mar/03/2025

Safetv Measures

Obtain special instructions before use.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Any incompatibilities

Strong oxidizing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Wash contaminated parts thoroughly after handling.

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

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Store locked up.

(Incompatible storage condition)

Avoid heat and sources of ignition (flames, sparks, etc.).

Container and packaging materials for safe handling data is not available.

Section 8. Exposure controls/personal protection

Adopted value ACGIH (1,2,4-Trimethylbenzene) TWA: 10ppm (CNS impair; hematologic eff) (1,3,5-Trimethylbenzene) TWA: 10ppm (CNS impair; hematologic eff) (Xylene (Mixture of isomers)) TWA: 20ppm (Eye & URT irr; hematologic eff; ototoxicity; CNS impair) (Ethylbenzene) TWA: 20ppm (URT & eye irr; ototoxicity; kidney eff; CNS impair) (Cumene)

TWA: 5ppm (URT adenoma; neurological eff)

Notation

Control parameters

(Xylene (Mixture of isomers))

OTO

(Ethylbenzene)

OTO

OSHA-PEL

(Cumene) TWA: 50ppm, 245mg/m3

(Ethylbenzene)

TWA: 100ppm, 435mg/m3

(Xylene (Mixture of isomers))

TWA: 100ppm, 435mg/m3

NIOSH-REL

(Cumene)

TWA: 50ppm



SDS作成/容器ラベル作成支 ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation, 2025_General_Solvent_US-2, Mar/03/2025 (Ethvlbenzene) TWA: 100ppm; STEL:125ppm (Xylene (Mixture of isomers)) TWA: 100ppm; STEL: 150ppm California proposition 65 Cancer NSRL (Ethylbenzene) NSRL=54 μ g/day (inhalation); 41 μ g/day (oral) Exposure controls Appropriate engineering controls Use in a location equipped with a general ventilation system or local exhaust ventilation system. Eye wash station should be available. Washing facilities should be available. Individual protection measures Respiratory protection Wear respiratory protection. Hand protection Chemical protective gloves Recommended material(s): impermeable or chemical resistant rubber Eye protection Wear safety glasses with side-shields or chemical safety goggle. Skin and body protection Wear protective clothing. Section 9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Liquid Color: Colorless Odor: Petroleum odor Odor threshold data is not available. Melting point/Freezing point data is not available. Boiling point or initial boiling point: 130°C Boiling range data is not available. Flammability (gases, liquids and solids): Flammable Lower and upper explosion limit/flammability limit: Lower explosion limit: 0.6vol % Upper explosion limit: 7vol % Flash point: 39°C(Closed Cup) Auto-ignition temperature: 432°C Decomposition temperature data is not available. pH data is not available. Dynamic viscosity: 20.1mPas(20°C) Kinematic viscosity: 17.5mm2/s(40°C) Solubility: Solubility in water: Insoluble Solubility in solvent data is not available. n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 0.88(20°C)

Relative vapor density (Air=1): 4.1

```
Particle characteristics: Not applicable
```

Evaporation rate data is not available.



ーSDS作成/容器ラベル作成支援システムー

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,

2025_General_Solvent_US=2, Mar/03/2025

Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Vapors may catch fire and explode.

Conditions to avoid

Avoid heat and sources of ignition (flames, sparks, etc.).

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

The following substances are produced by pyrolysis.

Carbon oxides

Section 11. Toxicological Information

The product has not been subjected to toxicological testing. Refer to the available data on the constituents. Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Xylene (Mixture of isomers))

Category 4

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(1,2,4-Trimethylbenzene)

Category 4

(Xylene (Mixture of isomers))

Category 4

(Ethylbenzene)

Category 4

Irritant properties

Skin corrosion/irritation

[Product]

Category 2, Causes skin irritation

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(1,2,4-Trimethylbenzene)

Category 2

(Xylene (Mixture of isomers))

Category 2



SDS作成/容器ラベル作成支 ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation, 2025_General_Solvent_US-2, Mar/03/2025 Serious eye damage/irritation [Product] Category 2, Causes serious eye irritation [Data for components of the product] [Table 3 of Annex VI to the CLP Regulations] (1,2,4-Trimethylbenzene) Category 2 Sensitization Respiratory sensitization [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Skin sensitization [Product] Classification not possible (Insufficient data available or no data available). [Data for components of the product] No data available. Germ cell mutagenicity [Product] Category 1B, May cause genetic defects [Data for components of the product] [Table 3 of Annex VI to the CLP Regulations] (Solvent naphtha) Category 1B Carcinogenicity [Product] Category 1B, May cause cancer [Data for components of the product] [Table 3 of Annex VI to the CLP Regulations] (Solvent naphtha) Category 1B (Cumene) Category 1B [IARC] (Xylene (Mixture of isomers)) Group 3 : Not classifiable as to its carcinogenicity to humans (Ethylbenzene) Group 2B : Possibly carcinogenic to humans (Cumene) Group 2B : Possibly carcinogenic to humans [ACGIH] (1,2,4-Trimethylbenzene) A4: Not Classifiable as a Human Carcinogen (Xylene (Mixture of isomers)) A4: Not Classifiable as a Human Carcinogen (Ethylbenzene) A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Cumene) A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans [NTP] (Cumene)

RAHC : Reasonably Anticipated to be Human Carcinogens



```
SDS作成/容器ラベル作成支援システム
           ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,
2025_General_Solvent_US-2, Mar/03/2025
  Reproductive toxicity
       [Product]
         Classification not possible (Insufficient data available or no data available).
       [Data for components of the product]
         No data available.
  Specific target organ toxicity (STOT)
    STOT-single exposure
       [Product]
         Category 3, May cause respiratory irritation
       [Data for components of the product]
         [Table 3 of Annex VI to the CLP Regulations]
         (1.2.4-Trimethylbenzene)
         Category 3 (Respiratory tract irritation)
         (1,3,5-Trimethylbenzene)
         Category 3 (Respiratory tract irritation)
         (Cumene)
         Category 3 (Respiratory tract irritation)
    STOT-repeated exposure
       [Product]
         Category 2, May cause damage to organs through prolonged or repeated exposure
       [Data for components of the product]
         [Table 3 of Annex VI to the CLP Regulations]
         (Ethylbenzene)
         Category 2 (hearing organs)
  Aspiration hazard
       [Product]
         Category 1, May be fatal if swallowed and enters airways
       [Data for components of the product]
         [Table 3 of Annex VI to the CLP Regulations]
         (Solvent naphtha)
         Category 1
         (Ethylbenzene)
         Category 1
         (Cumene)
         Category 1
Section 12. Ecological Information
       The product has not been subjected to ecotoxicological testing. Refer to the available data
       on the constituents.
  Toxicity
  Aquatic toxicity
      [Product]
         Category 2, Toxic to aquatic life with long lasting effects
       [Data for components of the product]
       Hazardous to the aquatic environment, long-term (chronic)
         [Table 3 of Annex VI to the CLP Regulations]
         (1,2,4-Trimethylbenzene)
         Category 2
         (1,3,5-Trimethylbenzene)
         Category 2
         (Cumene)
```

```
Category 2
```



SDS作成/容器ラベル作成支援システム ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation, 2025_General_Solvent_US-2, Mar/03/2025 Water solubility (1,2,4-Trimethylbenzene) very poor (source: ICSC, 2002) (1,3,5-Trimethylbenzene) very poor (source: ICSC, 2002) (Ethylbenzene) 0.015 g/100 mL (20°C) (source: ICSC, 2007) (Cumene) very poor (0.02 g/100 mL , 20°C) (source: ICSC, 2014) Persistence and degradability [Data for components of the product] (1,2,4-Trimethylbenzene) Not rapidly degradable (Degradation rate: 8.7% (by BOD)) (source: NITE) (1,3,5-Trimethylbenzene) Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE) (Xylene (Mixture of isomers)) Not rapidly degradable (Degradation rate: 39% (by BOD)) (source: NITE) (Ethylbenzene) Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE) (Cumene) Not rapidly degradable (Degradation rate: 13%) (84/449/EEC) (source: NITE) Bioaccumulative potential [Data for components of the product] (1,2,4-Trimethylbenzene) log Pow: 3.8 (source: ICSC, 2002) (1,3,5-Trimethylbenzene) log Pow: 3.42 (source: ICSC, 2002) (Xylene (Mixture of isomers)) log Pow: 3.16 (source: NITE) (Ethylbenzene) log Pow: 3.1 (source: ICSC, 2007) (Cumene) log Pow: 3.66 (source: NITE) Mobility in soil Mobility in soil data is not available. Other adverse effects Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment. Dispose of contents/container in accordance with local/national regulation. Dispose to an authorized waste collection point. Do not dump into sewers, on the ground or into any body of water. Contaminated packing

Dispose of container after using the contents completely.



SDS作成/容器ラベル作成支援シ ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation, 2025_General_Solvent_US-2, Mar/03/2025 Section 14. Transport Information UN No., UN CLASS UN Number or ID Number : 1268 UN Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. Class or division (Transport hazard class): 3 Packing group : III ERG GUIDE No.: 128 Special provisions No.: 223 IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : 1268 **UN Proper Shipping Name :** PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. Class or division (Transport hazard class): 3 Packing group : III Special provisions No.: 223; 955 IATA (Dangerous Goods Regulations) UN Number or ID Number : 1268 UN Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. Class or division (Transport hazard class): 3 Hazard labels : Flamm. liquid Packing group : III Special provisions No.: A3 Environmental hazards Marine pollutants (yes/no) : yes Special precautions for user Special precautions for user is not applicable. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This product is not intended to be carried in bulk.

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

1,2,4-Trimethylbenzene; Cumene; Ethylbenzene; 1,3,5-Trimethylbenzene; Xylene (Mixture of isomers); Solvent naphtha

Superfund Amendments and Reauthorizations Act (SARA), Title III SARA 313 (TRI)

Cumene; Ethylbenzene; 1,2,4-Trimethylbenzene; Xylene (Mixture of isomers)

California proposition 65

WARNING: This product can expose you to chemical(s), which is(are) known to the State of California to cause cancer, and/or chemical(s), which is (are) known to the State of

California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

Cancer

Cumene (Cancer)

Ethylbenzene (Cancer)

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.



ーSDS作成/容器ラベル作成支援システムー

ASAHI GRAPHIC General Solvent, Asahi Graphic Corporation,

2025_General_Solvent_US-2, Mar/03/2025

Section 16. Other information

GHS classification and labelling

Flammable liquids, Category 3: H226 Flammable liquid and vapour

Skin corrosion/irritation, Category 2: H315 Causes skin irritation

Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

Germ cell mutagenicity, Category 1B: H340 May cause genetic defects

Carcinogenicity, Category 1B: H350 May cause cancer

STOT - single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.

STOT - Repeated exposure, Category 2: H373 May cause damage to organs through prolonged or repeated exposure

Aspiration hazard, Category 1: H304 May be fatal if swallowed and enters airways Hazardous to the aquatic environment, long-term (chronic), Category 2: H411 Toxic to

aquatic life with long lasting effects

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN IMDG Code, 2024 Edition (Incorporating Amendment 42–24)

IATA Dangerous Goods Regulations (66th Edition) 2025

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 01/12/2023 and Commission delegated regulation (EU) 2024/197 (ATP21)).