General Solvent, Asahi Graphic Corporation, 2025_General_Solvent_US-3, Jul/09/2025
Date of issue for the 1st edition : Feb/28/2025
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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-3

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: 123 Main Street, Apt 4B, Anytown, CA 91234, USA
- Telephone number: +1-234-567-8901
- FAX: +1-357-902-4681

Emergency telephone number: +1-987-654-3210

Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

Classification according to the OSHA Hazard Communication Standard (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 the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal word: Danger

HAZARD STATEMENT
- Flammable liquid and vapor
- Causes skin irritation
- Causes serious eye irritation
- May cause genetic defects
- May cause cancer
- May cause respiratory irritation
- May cause damage to organs through prolonged or repeated exposure (hearing organs)
- May be fatal if swallowed and enters airways
- Toxic to aquatic life with long lasting effects

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PRECAUTIONARY STATEMENT

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Do not breathe mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash contaminated parts thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

In case of fire: Use appropriate media to extinguish.
Collect spillage.
Specific treatment is required.
Get medical advice/attention if you feel unwell.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER/doctor/physician if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 or shower.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
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.
Do NOT induce vomiting.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

Storage

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

Disposal

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

Hazards not otherwise classified

None known.

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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.
The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

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.

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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 a self-contained breathing apparatus when handling a spill in a poorly ventilated area.
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, etc.), 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.

(Precautions)

Avoid contact with skin.
Avoid contact with eyes.

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Safety 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

Control parameters

Occupational Exposure Limit

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

(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

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(Ethylbenzene)

TWA: 100ppm; STEL:125ppm

(Xylene (Mixture of isomers))

TWA: 100ppm; STEL: 150ppm

California proposition 65

Cancer NSRL

(Ethylbenzene)

NSRL=54 μg/day (inhalation); 41 μg/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℃

Boiling range data is not available.

Flammability: Flammable

Lower and upper explosion limit/flammability limit:

Lower explosion limit: 0.6vol %

Upper explosion limit: 7vol %

Flash point: 39℃(Closed Cup)

Auto-ignition temperature: 432℃

Decomposition temperature data is not available.

pH data is not available.

Dynamic viscosity: 20.1mPa･s(20℃)

Kinematic viscosity: 17.5mm2/s(40℃)

Solubility:

Solubility in water: Insoluble

Solubility in solvent data is not available.

Partition coefficient n-octanol/water data is not available.

Vapor pressure data is not available.

Density and/or relative density: 0.88(20℃)

Relative vapor density (Air=1): 4.1

Particle characteristics: Not applicable

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

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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

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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

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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℃) (source: ICSC, 2007)
(Cumene)
very poor (0.02 g/100 mL , 20℃) (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.

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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.

Maritime transport in bulk according to IMO instruments

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.

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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
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information
OSHA Hazard Communication Standard - 2024 (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)).