Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

Date of issue for the 1st edition : 22/04/2025
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Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:
Product name: Pelarut am (General Solvent)
Product code (SDS NO): 2025_General_Solvent_ML_E-2

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Industrial use

1.3 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

1.4 Emergency telephone number: +60-12-3456-7890

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

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)
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

2.2 Label elements

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
H304 May be fatal if swallowed and enters airways
H411 Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT
Prevention
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

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.
P261 Avoid breathing dust/fume/gas/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.
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.

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	CAS No.	Content (%)
Classification Code and H code	EC No.	
Solvent naphtha.	64742-95-6	55 - 60
Carc. 1B, H350; Muta. 1B, H340; Asp. Tox. 1, H304 [SCL's, M-Factors, ATE, Component notes] note:[P]	265-199-0	
1,2,4-Trimethylbenzene	95-63-6	15 - 20
Flam. Liq. 3, H226; Acute Tox. 4 *, H332; STOT SE 3, H335; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 2, H411	202-436-9	
1,3,5-Trimethylbenzene	108-67-8	5 - 10
Flam. Liq. 3, H226; STOT SE 3, H335; Aquatic Chronic 2, H411 [SCL's, M-Factors, ATE, Component notes] STOT SE 3; H335: C >= 25 %	203-604-4	
Xylene (Mixture of isomers)	1330-20-7	5 - 10
Flam. Liq. 3, H226; Acute Tox. 4 *, H332; Acute Tox. 4 *, H312; Skin Irrit. 2, H315 [SCL's, M-Factors, ATE, Component notes] *;note:[C]	215-535-7	
Ethylbenzene	100-41-4	5 - 10
Flam. Liq. 2, H225; Acute Tox. 4 *, H332; Asp. Tox. 1, H304; STOT RE 2, H373 (hearing organs)	202-849-4	
Cumene	98-82-8	1 - 5
Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; Aquatic Chronic 2, H411	202-704-5	

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

Section 4. First-aid measures

4.1 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.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment is required.

Section 5. Fire-fighting measures

5.1 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.

5.2 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.

5.3 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

6.1 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.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.
Do not wash away into sewers or waterway.

6.3 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.

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/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.
Do not ingest.

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.

7.2 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

8.1 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)

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025
(Cumene)
TWA: 5ppm (URT adenoma; neurological eff)
Notation
(Xylene (Mixture of isomers))
OTO
(Ethylbenzene)
OTO
Malaysia OEL (Occupational Safety Health Act 1994 [Act 514] Part III)
(Ethylbenzene)
TWA: 100ppm, 434mg/m3
(Cumene)
TWA: 50ppm, 246mg/m3 (skin)

8.2 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

9.1 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 (gases, liquids and solids): Ignitable
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.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.
Density and/or relative density: 0.88(20℃)

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

Relative vapor density (Air=1): 4.1

Particle characteristics: Not applicable

Evaporation rate data is not available.

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Vapors may catch fire and explode.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Strong oxidizing agents

10.6 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.

11.1 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

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

[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

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

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

(Ethylbenzene)

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Cumene)

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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]

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]

(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.

12.1 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

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

(1,3,5-Trimethylbenzene)
Category 2
(Cumene)
Category 2

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)

12.2 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)

12.3 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)

12.4 Mobility in soil

Mobility in soil data is not available.

12.7 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

13.1 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.

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : 1268

14.2 UN Proper Shipping Name :

PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S.

14.3 Class or division (Transport hazard class) : 3

14.4 Packing group : III

ERG GUIDE No.: 128

Special provisions No.: 223

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : 1268

14.2 UN Proper Shipping Name :

PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S.

14.3 Class or division (Transport hazard class) : 3

14.4 Packing group : III

Special provisions No.: 223; 955

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : 1268

14.2 UN Proper Shipping Name :

PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S.

14.3 Class or division (Transport hazard class) : 3

Hazard labels : Flamm. liquid

14.4 Packing group : III

Special provisions No.: A3

14.5 Environmental hazards

Marine pollutants (yes/no) : yes

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 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

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

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

Section 16. Other information

GHS classification and labelling

Flammable liquids, Category 3: H226 Flammable liquid and vapor

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.

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

Pelarut am (General Solvent), Asahi Graphic Corporation, 2025_General_Solvent_ML_E-2, 02/05/2025

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
Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013
Industry Code of Practice on Chemicals Classification and Hazard Communication (Amendment) 2019 and the 2014 version
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000
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)), Malaysia official data (ICOP CHC (AMENDMENT) 2019 PART 1).