

C9 Aromatic Solvent

1. identification

1.1. Product identifier

Trade name/designation : C9 Aromatic Solvent [AR0011]

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

– Not available

1.2.2. Uses advised against

– Not available

1.3. Details of the supplier of the safety data sheet

– Manufacturer/Supplier : GODO CHEMICAL Corporation

– Address : #1017, 10F Suseo Hyundai Ventureville 10 Bamgogae-ro 1-gil
Gangnam-gu Seoul 06349 Korea

1.4. Emergency telephone number

– EU-wide emergency number : 112

See section 16.6 for the list of telephone number of National Helpdesks in the European Economic Area.

2. hazard identification

2.1. Classification of the substance/mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

– Flammable liquids : Category3, H226

– Skin corrosion/irritation : Category2, H315

– Specific target organ toxicity(Single exposure) : Category3(Narcotic effects), H336

– Specific target organ toxicity(Single exposure) : Category3(Respiratory tract irritation), H335

– Specific target organ toxicity(Repeated exposure) : Category2, H373

– Aspiration hazard : Category1, H304 – Chronic aquatic toxicity : Category2, H411

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

* Hazard Pictogram(s)



* Signal word : Danger

* Hazard statement(s)

– H226 Flammable liquid and vapour

– H304 May be fatal if swallowed and enters airways



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- H315 Causes skin irritation
- H335 May cause respiratory irritation.
- H336 May cause drowsiness and dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure (Refer Section SDS 11)
- H411 Toxic to aquatic life with long lasting effects

* Precautionary statement(s)

1) Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

2) Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS 5).
- P391 Collect spillage.

3) 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.

4) Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation

2.3. Other hazards

- Not available



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3. composition/information on ingredients

3.1. Substances

– Not applicable

3.2. Mixtures

Name	EC No.	CAS No.	REACH registration No.	% [weight]	Classification [1272/2008/EC]
Solvent naphtha (petroleum), light arom.	265-199-0	64742-95-6	01-2119486773-24-0011	100	Carc.1B, H350 Muta.1B, H340 Asp.Tox.1, H304
Trimethyl benzene	247-099-9	25551-13-7	–	50	Aquatic Chronic 2, H411 Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 Skin Irrit. 2, H315
Xylene	215-535-7	1330-20-7	01-2119488216-32-0014	<1	Acute Tox. 4, H312 Acute Tox. 4, H332 Flam. Liq. 3, H226 Skin Irrit. 2, H315

4. first aid measures

4.1. Description of first aid measures

General

– No general information.

Inhalation

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.
- Get medical attention immediately.



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Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Get medical attention immediately.
- Go to the hospital immediately if symptoms (flare, irritate) occur.
- Wash thoroughly after handling.

Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Get medical attention immediately.

Ingestion

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.
- Get medical attention immediately.
- If swallowed, large amounts of water to drink and do not induce vomiting

4.2. Most important symptoms and effects, both acute and delayed

- Not available

4.3. Indication of any immediate medical attention and special treatment needed

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

Unsuitable extinguishing media

- Avoid use of water jet for extinguishing

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

- Not available

5.3. Advice for firefighters

- Move containers from fire area, if you can do without the risk.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.



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- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.
- Use fire fighting procedures suitable for surrounding area.
- Vapor or gas is burned at distant ignition sources can be spread quickly.
- Due to the extremely low flash point, irrigating fire extinguishing may be less effective when put out a fire.

6. additional release measures

6.1. Personal Precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment: Wear proper protective equipment.
- Emergency procedures: Not applicable
- If required, notify relevant authorities according to all applicable regulations.

6.1.2. For emergency responders

- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.
- Move container to safe area from the leak area.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Do not direct water at spill or source of leak.
- Avoid skin contact and inhalation.

6.2. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.
- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

- Clean up all spills immediately.
- Control personal contact by using protective equipment.
- No smoking, flame or ignition sources.
- Stop leak if safe to do so.

6.3.2. For cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.



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6.3.3. Other information

- Slippery when spilt.

6.4. Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

7. handling and storage

7.1. Precautions for safe handling

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Get the manual before use.
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.
- Avoid contact with heat, sparks, flame or other ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

- Save in cool, dry and well ventilated place.
- Do not apply any physical shock to container.
- Avoid direct sunlight.
- Keep sealed when not in use.
- No open fire.
- Collected them in sealed containers.
- Store away from water and sewer.

7.3. Specific end use(s)

- See Section 1 for information on 1.2 Relevant identified uses.

8. exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limits

European Union (EU) Commission Directive 2006/15/EC (IOELVs)

- Not available

European Union (EU) Commission Directive 2006/15/EC (IOELVs) – Skin

- Not available



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8.2. Exposure controls

8.2.1. Appropriate engineering controls

– Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

8.2.2. Individual protection measures, such as personal protective equipment

Hand protection

– Wear appropriate chemical resistant glove.

Eye protection

– Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.

– Provide an emergency eye wash station and quick drench shower in the immediate work area.

Respiratory Protection

– Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.

– Respiratory protection is ranked in order from minimum to maximum.

– Consider warning properties before use.

– Any chemical cartridge respirator with organic vapor cartridge(s).

– Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

– Any air-purifying respirator with a full facepiece and an organic vapor canister.

– For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Skin protection

– Wear appropriate chemical resistant protective clothing.

8.2.3 Environmental exposure controls

– Do not let product enter drains. For ecological information refer to section 12.

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9. physical and chemical properties

Appearance(State)	Liquid
Appearance(Color)	Not available
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point/Freezing point	Not available
Initial boiling point and boiling range	155 °C ~ 181 °C
Flash point	44.5 °C
Evaporation rate	Not available
Flammability(solid, gas)	Not available
Upper/Lower Flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	>1.0
Relative density	0.86~0.88
Solubility	Not available
Partition coefficient of n-octanol/water	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	0.9403 @ 40 °C
Explosive properties	Not available
Oxidising properties	Not available

10. stability and reactivity

10.1. Reactivity

– Product is stable or unstable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.2. Chemical Stability

– This material is stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

– Cylinders exposed to fire may vent and release flammable gas.

10.4. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with heat, sparks, flame or other ignition sources.



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10.5. Incompatible materials

- Not available

10.6. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. toxicological information

11.1. Acute toxicity

- Oral
 - Product (ATEmix) : >5000mg/kg
 - [Trimethyl benzene] : LD50 = 8970 mg/kg Rat (RTECS)
- Dermal
 - Product (ATEmix) : Not available
 - [Xylene] : LD50 = 1000 ~ 2000 mg/kg
- Inhalation
 - Product (ATEmix) : Not available
 - [Xylene] : LC50 = 10 ~ 20 mg/L

11.2. Skin corrosion/irritation

- Causes skin irritation

11.3. Serious eye damage/irritation

- Not available

11.4. Respiratory sensitization

- Not available

11.5. Skin sensitization

- Not available

11.6. Germ cell mutagenicity

- Not available

11.7. Carcinogenicity

- IARC
 - [Xylene] : Group 3
- OSHA
 - Not available
- ACGIH
 - [Xylene] : A4
- NTP
 - Not available
- EU CLP
 - [Solvent naphtha (petroleum), light arom.] : Carc. 1B (Note P)



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11.8. Reproductive toxicity

- Not available

11.9. Specific target organ toxicity(single exposure):

- May cause drowsiness and dizziness.
- May cause respiratory irritation.

11.10. Specific target organ toxicity(repeated exposure):

- May cause damage to organs through prolonged or repeated exposure

11.11. Aspiration hazard

- May be fatal if swallowed and enters airways

12. ecological information

12.1. Toxicity

12.1.1. Fish

- Not available

12.1.2. Invertebrate

- [Trimethyl benzene] : LC50 5.4 mg/L 96 hr glass shrimp (NITE: ACQUIRE, 2003)

12.1.3. Algae

- Not available

12.2. Persistence and degradability

12.2.1. Persistence

- Not available

12.2.2. Degradability

- Not available

12.3. Bioaccumulative potential

12.3.1. Bioaccumulation

- [Trimethyl benzene] : BCF = 328 (NITE: Existing Chemical Safety Inspections Data)

12.3.2. Biodegradability

- [Trimethyl benzene] : BOD: 0% (NITE: Existing Chemical Safety Inspections Data)

12.4. Mobility in soil

- Not available

12.5. Results of PBT and vPvB assessment

- Not available

12.6. Other adverse effects

- Toxic to aquatic life with long lasting effects



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13. disposal considerations

13.1. Waste treatment methods

- Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.
- Incinerate the oil by separating the oil and water
- The remainder of the water after separation will be processed in a water pollution prevention facilities.
- Do incineration or stabilization of the residue after disposal as the method of evaporation and concentration.
- Do incineration of the residue after disposal as the method of agglomeration and precipitation.
- Take care of incinerate or stabilization after treatment, purified by means of Separation•distillation•extractio•filtration•pyrolysis
- The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. transport information

14.1. UN No.

14.1.1. UN No. (ADR/RID/ADN)

- 1268

14.1.2. UN No. (IMDG CODE/IATA DGR)

- 1268

14.1.3. UN No. (ICAO)

- 1268

14.2. UN proper shipping name

- PETROLEUM DISTILLATES, N.O.S. OR PETROLEUM PRODUCTS, N.O.S.

14.3. Transport hazard class(es)

14.3.1. ADR/RID/ADN Class

- 3

14.3.2. ADR/RID/ADN Class

- Class : 3, PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.

14.3.3. ADR Label No.

- 3

14.3.4. IMDG Class

- 3



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- 14.3.5. ICAO Class/Division
 - 3
- 14.3.6. Transport Labels

- 14.4. Packing group
 - 14.4.1. ADR/RID/ADN Packing group
 - III
 - 14.4.2. IMDG Packing group
 - III
 - 14.4.3. ICAO Packing group
 - III
- 14.5. Environmental hazards
 - Applicable
- 14.6. Special precautions for user
 - Local transport follows in accordance with Dangerous goods Safety Management Law.
 - Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
 - EmS FIRE SCHEDULE : F-E (Non-water-reactive flammable liquids)
 - EmS SPILLAGE SCHEDULE : S-E (Flammable liquids, floating on water)
 - Emergency Action Code : 3YE
 - Hazard No.(ADR) : 33
 - Tunnel Restriction Code : 1 (D/E)
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 - Not applicable

15. regulatory information

- 15.1. Safety, health and environmental regulation / legislation specific for the substance or mixture
 - 15.1.1. Europe regulatory
 - 15.1.1.1 REACH Restricted substance under REACH
 - Applicable (Solvent naphtha (petroleum), light arom.)
 - 15.1.1.2 REACH Substances subject to authorization under REACH
 - Not applicable
 - 15.1.1.3 REACH SVHC
 - Not applicable
 - 15.1.1.4 Europe PBT
 - Not applicable
 - 15.1.1.5 European Union (EU) Transport of Dangerous Goods by Road – Dangerous Goods List
 - Not applicable
- 15.2. Chemical Safety Assessment
 - Not conducted



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16. other information

16.1. Indication of changes

- The Safety Data Sheet has been reviewed and the data therein were revised and laid out according to the requirements of the Commission Regulation (EC) No. 1907/2006

16.2. Abbreviations and acronyms

- 1272/2008 CLP : Classification, Labelling and Packaging regulation.
- REACH : Registration, Evaluation and authorisation of chemical substances.
- DNEL : Derive no effects level
- PNEC : Predicted no effect concentration

16.3. Key literature references and sources for data

- This Safety Data Sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB

16.4. Classification procedure

- The mixture classification has been derived based on the classification of the individual components in accordance with the rules set out in Regulation (EC) No 1272/2008 (CLP) as well as the translation tables in Annex VII to the same regulation.

16.5. Training advice

- Not applicable

16.6. Further information

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

- This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.
- It should not therefore be construed as guaranteeing any specific property of the product.
- Contact National Helpdesks, List of Telephone Numbers : AUSTRIA (Vienna Wien) +43 1 515 61 0, BELGIUM (BrusselsBruxelles) +32 070 245 245, BULGARIA (Sofia) +359 2 9888 205, Croatia +385 1 2348 342 CZECH REPUBLIC (Prague Praha)



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