

SOLVENT C-IX

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

SOLVENT C-IX
C9 Aromatic Solvent (trade name)
CAS: Proprietary blend

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Industrial solvent/diluent for paints, printing inks, adhesives and rubber processing where a slow-evaporating aromatic hydrocarbon solvent is required. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Flam. Liq. 3	Flammable liquid, Category 3, H226
Asp. Tox. 1	Aspiration hazard, Category 1, H304
Skin Irrit. 2	Skin irritation, Category 2, H315
STOT SE 3	Specific target organ toxicity, single exposure, Category 3, H335/H336
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic hazard, Category 2, H411

2.2 GHS label elements, including precautionary statements:

GHS: Warning

Hazard statements:

H226 – Flammable liquid and vapour.
H304 – May be fatal if swallowed and enters airways.
H315 – Causes skin irritation.
H335 – May cause respiratory irritation.
H336 – May cause drowsiness or dizziness.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P261: Avoid breathing vapours.
P264: Wash exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P370+P378: In case of fire: Use dry chemical powder, CO2, foam or alcohol-resistant foam to extinguish.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with hazardous-waste regulations.

2.3 Other hazards which do not result in classification:

"Solvent C-IX" is a trade name for a proprietary C9-range aromatic hydrocarbon solvent blend; exact hydrocarbon distribution/isomer ratio is a trade secret of the formulator and varies by production batch – full composition and certificate of analysis available on request.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Solvent C-IX – proprietary aromatic hydrocarbon solvent blend (predominantly C9 aromatics, e.g. trimethylbenzene/cumene/propylbenzene isomers)
This product is a proprietary aromatic hydrocarbon solvent blend (UVCB-type mixture); the individual isomer identities and exact percentages are Available on request (formulator's composition data sheet/certificate of analysis). In accordance with Annex 4.3.3 of the GHS, the product's generic hazard profile is:

Identification	Chemical Name / Classification	Concentration
Proprietary blend (C9 aromatic hydrocarbon range)	Solvent C-IX — Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; STOT SE 3: H335/H336; Aquatic Chronic 2: H411 – Warning	100% (blend)

3.2 Mixtures:

This product is itself a proprietary mixture – see 3.1 above; exact composition Available on request.

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the affected person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water.

By eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

By ingestion/aspiration:

Do NOT induce vomiting – risk of aspiration into the lungs (H304). Rinse mouth. Obtain immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Dry chemical powder, carbon dioxide (CO2), alcohol-resistant foam, water spray/fog.

Unsuitable: Do not use a solid/jet water stream as this may spread the fire.

5.2 Specific hazards arising from the chemical:

Flammable liquid; vapours are heavier than air, may accumulate in low-lying/confined areas, travel to a source of ignition and flash back.

5.3 Special protective actions for fire-fighters:

Evacuate all non-essential personnel. Intervention only by capable personnel who are trained and aware of the hazards of the product. In all cases wear self-contained breathing apparatus and full protective clothing.

Additional provisions:

If safe to do so, remove the exposed containers, or cool with large quantities of water spray from a safe/protected position. Approach from upwind. Contain fire-fighting water for later disposal; it must not enter drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Eliminate all sources of ignition. Ensure adequate ventilation. Personal protection equipment must be used against potential contact with the spilt product (see section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment as per section 8. Keep unprotected persons away.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium, drains or soil. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and materials for containment and cleaning up:

Eliminate all ignition sources. Contain spillage with inert absorbent material. Collect into suitable closed containers for disposal. Prevent entry into drains/watercourses.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Handle in well-ventilated areas away from heat, sparks and open flames. Avoid inhalation of vapours and prolonged skin contact.

B. Technical recommendations for the prevention of fires and explosions:

Bond and ground containers and equipment during transfer to eliminate static discharge. Keep away from strong oxidising agents.

C. Technical recommendations on general occupational hygiene:

Do not eat, drink or smoke during the process; wash hands and exposed skin afterwards with suitable cleaning products.

D. Technical recommendations to prevent environmental risks:

Provide bunded/contained storage. Avoid atmospheric emissions and discharge to drains. Follow the protective measures given in the exposure controls/personal protection section.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	35°C
Maximum time	24 Months (unopened, original container)

B. General conditions for storage:

Store in a cool, well-ventilated flammable-liquids store away from heat, direct sunlight and sources of ignition, in accordance with the Petroleum Rules, 2002 (India) where applicable.

7.3 Specific end use(s):

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace, per the Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987):

Identification	Occupational Exposure Limit Type	Value
Solvent C-IX (C9 aromatic blend)	Time Weighted average concentration (8 hrs)	Not established for the blend as a whole – Available on request; individual C9 aromatic components typically fall in the 20–100 ppm ACGIH TLV range

8.2 Appropriate engineering controls:

It is recommended to use localized extraction/general ventilation in the work area as a collective protection measure to avoid exceeding occupational exposure limits, in addition to individual protective equipment (PPE) as needed. Consult the manufacturer's information leaflet for storage, use, cleaning and maintenance of PPE.

B. Respiratory protection:

Where ventilation is inadequate, use a respirator fitted with an organic vapour cartridge.

C. Specific protection for the hands:

Chemical-resistant gloves (nitrile rubber or similar).

D. Eye and face protection:

Chemical safety goggles/panoramic glasses against splash/projections. Use if there is a risk of splashing.

E. Bodily protection:

Flame-retardant/antistatic protective clothing. Safety footwear.

F. Additional emergency measures:

Emergency shower (ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011) and eyewash stations (DIN 12 899, ISO 3864-1:2011, ISO 3864-4:2011) should be available.

Environmental exposure controls:

Avoid environmental spillage of both the product and its container. See subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Liquid
Appearance	Clear, colourless to pale yellow liquid
Color	Colourless to pale yellow
Odor	Aromatic, characteristic
Odour threshold	Not established (blend)
Volatility	
Boiling range at atmospheric pressure	160–185°C (typical C9 aromatic range)
Vapour pressure at 20°C	<0.5 kPa
Evaporation rate at 20°C	Slower than n-butyl acetate
Product Description	
Density / Relative density at 20°C	0.86–0.90 g/cm³ (typical)
Dynamic viscosity at 20°C	<1.5 mPa·s (typical)
Concentration	Not applicable – proprietary blend
pH	Not relevant (non-aqueous)
Vapour density (air = 1)	>4 (heavier than air)
Partition coefficient n-octanol/water (log Pow)	>3 (typical for C9 aromatics)
Solubility in water at 20°C	Practically insoluble
Decomposition temperature	Not established
Melting/pour point	Not established (blend)
Flammability	
Flash Point	38–43°C (closed cup, typical)
Flammability (solid, gas)	Non-applicable (liquid)
Autoignition temperature	~450°C (typical)
Lower / Upper flammability limit	~0.8% / 6% v/v (typical)
Particle Characteristics	
Median equivalent diameter	Non-applicable (liquid)

* Not relevant/not established due to the nature of the product or grade.

9.2 Other information:

Explosive properties	Not classified as explosive
Oxidising properties	Not classified as oxidising
Corrosive to metals	Not corrosive to metals
Heat of combustion	~40 kJ/g (typical for aromatic hydrocarbons)
Surface tension at 20°C	Not established
Refraction index	Not established

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Stable under normal conditions of use. Reacts with strong oxidising agents.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Vapour/air mixtures may be explosive above flash point	Avoid heat and open flame	Avoid prolonged exposure	No particular hazard

10.5 Incompatible materials:

Strong oxidising agents.

10.6 Hazardous decomposition products:

Combustion produces carbon monoxide, carbon dioxide and dense smoke/particulates.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:

A. Ingestion (acute effect):

May be fatal if swallowed due to aspiration into the lungs (H304) – low-viscosity hydrocarbon liquid. Do not induce vomiting.

B. Inhalation (acute effect):
Vapours may cause respiratory irritation (H335) and, at high concentrations, drowsiness/dizziness (H336, narcotic effect).

C. Contact with skin and eyes (acute effect):
Causes skin irritation (H315); defatting with repeated/prolonged contact.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):
Not established for the blend as a whole based on available data; commercial C9 aromatic solvent grades are normally formulated with tightly controlled/negligible benzene content – refer to the batch certificate of analysis.
Consult the formulator’s composition data sheet (available on request) for CMR status of specific isomer components.

E. Sensitizing effects:
Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:
May cause respiratory irritation and/or drowsiness or dizziness (H335/H336).

G. Specific target organ toxicity (STOT) – repeated exposure:
Not established for the blend as a whole – Available on request.

H. Aspiration hazard:
H304 – May be fatal if swallowed and enters airways.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Solvent C-IX (proprietary blend)	LD50/LC50: Not established for the blend as a whole – Available on request	–

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects (based on typical C9 aromatic hydrocarbon profile).

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Solvent C-IX (proprietary blend)	Not established for the blend as a whole – Available on request	Non-applicable	–

12.2 Persistence and degradability:
Not established for the blend as a whole; aromatic hydrocarbon components of this type are generally inherently biodegradable.

12.3 Bioaccumulative potential:
Not established for the blend as a whole – Available on request; potential for moderate bioaccumulation based on typical log Pow of C9 aromatic components.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not established (blend)	Not established (blend)	Low mobility (typical)	Low mobility (typical)

12.5 Results of PBT and vPvB assessment:
Not classified as PBT or vPvB based on available data.

12.6 Other adverse effects:
Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Do not discharge to drains or watercourses. Recover/recycle where possible. Dispose of via a licensed hazardous-waste/solvent-recovery contractor in accordance with local regulations.
Refer to national and local regulations on hazardous waste management (Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended).

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023, India: Motor Vehicles Act / CMVR):

14.1 UN number	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains C9 aromatic hydrocarbons)
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains C9 aromatic hydrocarbons)
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Marine pollutant	Yes
14.6 Special precautions for user	EmS Codes: F-E, S-D Segregation group: Not relevant
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains C9 aromatic hydrocarbons)
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

- Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
- The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
- The Petroleum Act, 1934 and Petroleum Rules, 2002 (where applicable to flammable liquids)
- The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996
- Public Liability Insurance Act, 1991

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

- H226: Flammable liquid and vapour.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

The United Nations Economic Commission for Europe (UNECE); ECHA classification and labelling inventory; publicly available substance-specific safety data references.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | COD: Chemical Oxygen Demand | BOD5: 5-day biochemical oxygen demand | BCF: Bioconcentration factor | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer | TWA: Time-weighted average | STEL: Short-term exposure limit

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET