



SAFETY DATA SHEET

R 69 CP Part A

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME R 69 CP Part A

SUPPLIER **ARDEX ENDURA (INDIA) PRIVATE LIMITED**
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2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION

Flammable liquids, Category 3 (H226)

Acute toxicity, Dermal, Category 4 (H312)

Acute toxicity, Inhalative, Category 4 (H332)

LABEL ELEMENTS

Hazardous components which must be listed on the label

Xylene isomer mixture

GHS-LABELLING



Warning

HAZARD STATEMENTS

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

PRECAUTIONARY STATEMENTS

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

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

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 + P312 IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

P370 Advice for fire-fighters

P378 Suitable extinguishing media: Carbon dioxide (CO₂), Foam, extinguishing powder. In cases of larger fires, water spray should be used. Don't use high volume water jet.

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

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

OTHER HAZARDS

Risk of absorption through the skin of 1-methoxypropylacetate-2, xylene and ethylbenzene.

R 69 CP Part A**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Name	CAS-No.	EC No.	Index-No.	Content
Xylene isomers mixture	1330-20-7	215-535-7	601-022-00-9	10 - 20 %
Ethylbenzene	100-41-4	202-849-4	601-023-00-4	0 - 10 %
2-methoxy-1-methylethyl acetate	108-65-6	203-603-9	607-195-00-7	10 - 20 %
Methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	203-539-1		10 - 30 %
Methoxypropanol	1589-47-5	216-455-5		< 1 %
Titanium dioxide	13463-67-7			10 - 30 %

Type of product: Mixture
polyester polyol
ca. 67 % in 1-methoxypropylacetate-2 */ xylene 1 : 1

GHS CLASSIFICATION

Flam. Liq. 3 H226 Acute Tox. 4 Dermal H312 Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315

* (1-methoxypropylacetate-2 = 2-methoxy-1-methylethyl acetate)

4. FIRST-AID MEASURES**GENERAL ADVICE**

Take off all contaminated clothing immediately.

INHALATION

Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required.

INGESTION

DO NOT induce the patient to vomit, medical advice is required.

SKIN CONTACT

In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.

EYE CONTACT

Hold the eyes open and rinse with preferably lukewarm water for asufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

5. FIRE-FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA**

Carbon dioxide (CO₂), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

UNSUITABLE EXTINGUISHING MEDIA

High volume water jet

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

ADVICE FOR FIRE-FIGHTERS

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Put on protective equipment (see chapter 8). Keep away from sources of ignition. Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

ENVIRONMENT RELATED MEASURES

Do not allow to escape into waterways, wastewater or soil.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.

REFERENCE TO OTHER SECTIONS

For further disposal measures see chapter 13.

R 69 CP Part A**7. HANDLING AND STORAGE****USAGE PRECAUTIONS**

Provide sufficient air exchange and/or exhaust in work rooms.

Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in Chapter 8 should not be exceeded.

EXPLOSION PROTECTION REQUIRED.

The personal protective measures described in Chapter 8 must be observed. The precautions required in the handling of solvents must be taken. Avoid contact with skin and eyes and the inhalation of vapor.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**CONTROL PARAMETERS**

Components with workplace control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
Xylene isomers mixture	1330-20-7	IN OEL	TWA	100 ppm 435 mg/m ³		
Xylene isomers mixture	1330-20-7	IN OEL	STEL	150 ppm 655 mg/m ³		

EXPOSURE CONTROLS**RESPIRATORY PROTECTION**

Respiratory protection required in insufficiently ventilated working areas and during spraying.

HAND PROTECTION

Conditionally suitable materials for protective gloves; EN 374-3:

Fluorinated rubber - FKM ($\geq 0,4$ mm)

Breakthrough time not tested; dispose of immediately after contamination.

EYE PROTECTION

Wear eye/face protection.

SKIN AND BODY PROTECTION

Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

APPEARANCE	liquid
COLOUR	yellowish
ODOUR	solvent-like
ODOUR THRESHOLD	not established
PH	not established
POUR POINT	not established
INITIAL BOILING POINT	ca. 139°C
FLASH POINT	ca. 32°C
EVAPORATION RATE	not established
FLAMMABILITY (SOLID, GAS)	not applicable
BURNING NUMBER	not applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS

XYLENE ISOMERS MIXTURE	upper: 8,0 %(V) / lower: 1,0 %(V)
ETHYLBENZENE	upper: 7,8 %(V) / lower: 1,0 %(V)
2-METHOXY-1-METHYLETHYL ACETATE	upper: 10,8 %(V) / lower: 1,5 %(V)
VAPOUR PRESSURE	not established

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VAPOUR PRESSURE OF INGREDIENTS		
XYLENE ISOMERS MIXTURE	ca. 7 - 9 hPa at 20°C	
2-METHOXY-1-METHYLETHYL ACETATE	ca. 5 hPa at 20°C	
VAPOUR DENSITY	not established	
DENSITY	1.0 - 1.10 gram/cc at 20°C	DIN 53217
MISCIBILITY WITH WATER	partly miscible at 15°C	
WATER SOLUBILITY OF INGREDIENTS		
2-METHOXY-1-METHYLETHYL ACETATE	ca. 200 g/l at 20°C	
SURFACE TENSION	not established	
PARTITION COEFFICIENT (N OCTANOL/WATER)	not established	
AUTOIGNITION TEMPERATURE	not applicable	
IGNITION TEMPERATURE	ca. 315°C	
DECOMPOSITION TEMPERATURE	not established	
VISCOSITY, DYNAMIC	< 25,000 mPa.s at 23°C	DIN EN ISO 3219/A.3
EXPLOSIVE PROPERTIES	not established	
DUST EXPLOSION CLASS	not applicable	
OXIDISING PROPERTIES	not established	
OTHER INFORMATION	The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.	

10. STABILITY AND REACTIVITY**HAZARDOUS DECOMPOSITION PRODUCTS**

No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Toxicological studies on the product are not yet available.

For the purposes of risk assessment data for a comparable solvent-free:

Acute toxicity LD50 oral, rat: >2000 mg/kg

Primary skin irritation: slight irritant

Primary mucosae irritation: slight irritant

Salmonella/microsome test (Ames test) Not mutagenic in Ames Test.

Please find below the toxicological data available to us for the components.

INFORMATION ON TOXICOLOGICAL EFFECTS**ACUTE TOXICITY, ORAL**

Xylene isomers mixture

LD50 rat: 3.523 - 8.700 mg/kg

Ethylbenzene

LD50 rat: ca. 3.500 mg/kg

2-methoxy-1-methylethyl acetate

LD50 rat: 8.532 mg/kg

ACUTE TOXICITY, DERMAL

Xylene isomers mixture

LD50 rabbit: > 2.000 mg/kg

Ethylbenzene

LD50 rabbit: 5.000 mg/kg

2-methoxy-1-methylethyl acetate

LD50 rat: > 5.000 mg/kg

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ACUTE TOXICITY, INHALATION

Xylene isomers mixture
LC50 rat: 6350 ppm, 4 h

2-methoxy-1-methylethyl acetate
LC50 rat: > 23,8 mg/l, 6 h

PRIMARY SKIN IRRITATION

Xylene isomers mixture
Result: irritating

Ethylbenzene
Result: irritating

2-methoxy-1-methylethyl acetate
rabbit
Result: non-irritant

PRIMARY MUCOSAE IRRITATION

Xylene isomers mixture
Result: slight irritant

Ethylbenzene
Result: severe irritant
Vapours may cause irritation to the eyes, respiratory system and the skin.

2-methoxy-1-methylethyl acetate
rabbit
Result: slight irritant

SENSITISATION

Xylene isomers mixture
Result: negative

2-methoxy-1-methylethyl acetate
Skin sensitisation according to Magnusson/Kligmann (maximizing test):
Result: In the guinea-pig the product did not show a sensitising effect.

GENOTOXICITY IN VITRO

2-methoxy-1-methylethyl acetate
Test type: Salmonella/microsome test (Ames test)
Result: No indication of mutagenic effects.

CMR ASSESSMENT:

2-methoxy-1-methylethyl acetate
Mutagenicity: In vitro tests did not show mutagenic effects

ADDITIONAL INFORMATION

Xylene isomers mixture

Risk of cutaneous absorption. Aromatic hydrocarbons irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations. repeated or prolonged contact may cause irritation and dermatitis

Ethylbenzene
Risk of cutaneous absorption. Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Ecotoxicological testing of a comparable solvent-free product yielded the following results:

The product is not easily biodegradable.

On the basis of the ecotoxicological data, the product can be classified as non-hazardous to fish and daphnia.

Please find below the ecotoxicological data available to us for the components.

TOXICITY

ACUTE FISH TOXICITY

Xylene isomers mixture
LC50 13,4 mg/l
Species: Pimephales promelas (fathead minnow)
Exposure duration: 96 h

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Ethylbenzene
LC50 ca. 4,2 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 96 h
2-methoxy-1-methylethyl acetate
LC50 > 100 mg/l
Species: Oryzias latipes (Orange-red killifish)
Exposure duration: 96 h
Method: OECD Test Guideline 203

ACUTE TOXICITY FOR DAPHNIA
Xylene isomers mixture
EC50 81 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 24 h

Ethylbenzene
EC50 ca.1,8 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h

2-methoxy-1-methylethyl acetate
EC50 > 500 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

ACUTE TOXICITY FOR ALGAE
Xylene isomers mixture
EC50 110 mg/l
Tested on: Desmodesmus subspicatus (Green algae) Duration of test: 48 h

Ethylbenzene
EC50 ca. 4,6 mg/l
Tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h

2-methoxy-1-methylethyl acetate
EC50 > 1.000 mg/l
Tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h
Method: OECD Test Guideline 201

ACUTE BACTERIAL TOXICITY
Xylene isomers mixture
EC50 1.000 mg/l
Tested on: activated sludge Duration of test: 15 h

Ethylbenzene
EC0 ca.12 mg/l
Tested on: Pseudomonas putida

2-methoxy-1-methylethyl acetate
EC20 > 1.000 mg/l
Tested on: activated sludge Duration of test: 0,5 h
Method: OECD Test Guideline 209

PERSISTENCE AND DEGRADABILITY
BIODEGRADABILITY
Xylene isomers mixture
Biodegradation: 24 - 51 %, i.e. not readily degradable
Method: OECD Test Guideline 301 D
Degradation rate in 28 days.

Ethylbenzene
Biodegradation: 45 %, i.e. moderately degradable
Method: Closed Bottle test

2-methoxy-1-methylethyl acetate
Biodegradation: 100 %, 8 d, i.e. degradable
Method: OECD Test Guideline 302 B

Biodegradation: > 90 %, 28 d, i.e. readily biodegradable
Method: OECD Test Guideline 301 F

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ADDITIONAL INFORMATION ON ECOTOXICOLOGY:

Ethylbenzene

The product does not add to the AOX-value of effluent water (DIN 38409).

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

WASTE TREATMENT METHODS

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

14. TRANSPORT INFORMATION

ADR/RID

UN Number	: 1866
Description of the goods	: RESIN SOLUTION
Packaging group	: III
Hazard identification No	: 30
hazard label	: 3
Environmentally hazardous	: no

Special regulation for 'viscous substances' applicable

ADN

UN Number	: 1866
Description of the goods	: RESIN SOLUTION
Packaging group	: III
Hazard identification No	: 30
hazard label	: 3
Environmentally hazardous	: no

This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.

IATA

UN Number	: 1866
Description of the goods	: RESIN SOLUTION
Class	: 3
Packaging group	: III
hazard label	: 3
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355

IMDG

UN Number	: 1866
Description of the goods	: RESIN SOLUTION
Class	: 3
Packaging group	: III
IMDG-Labels	: 3
Marine pollutant	: no

SPECIAL PRECAUTIONS FOR USER

Combustible.

Keep separated from foodstuffs.

15. REGULATORY INFORMATION

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16. OTHER INFORMATION

TRAINING ADVICE : The details of this data sheet must be passed on to all personnel handling the product.

Full text of hazardous (H) warnings referred to under sections 2 and 3 of the CLP classification (1272/2008/CE).

- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.