

ACE ROOF COATINGS, INC.

Safety Data Sheet ARC Cleaning Solvent

SECTION 1: Identification

Product identifier

Product name ARC Cleaning Solvent

Product number 7891000 Brand ARC

Recommended use of the chemical and restrictions on use

Cleaner for ARC products.

Supplier's details

Name Ace Roof Coatings, Inc.
Address 4821 Grisham Drive
Rowlett, TX 75088

United States

Telephone 972-864-0240 Fax 469-366-9219

email info@arcroofcoat.com

Emergency phone number(s) INFOTRAC - 800-535-5053

OUTSIDE UNITED STATES CALL COLLECT 1-352-323-3500

SECTION 2: Hazard identification

Classification of the substance or mixture

- Flammable liquids (chapter 2.6), Cat. 3
- Acute toxicity (chapter 3.1), Cat. 4
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Hazardous to the aquatic environment long-term hazard (chapter 4.1), Cat. 2
- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 2

GHS label elements, including precautionary statements Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin
H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary statement(s)

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.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P370+P378 In case of fire: Use Water spray, foam, carbon dioxide (CO2), dry chemical to

extinguish.

P403+P235 Store in a well ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with all local, regional, national

and international regulations.

P264 Wash hands, forearms and face thoroughly after handling.

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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Get medical advice/attention if you feel unwell.

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

P405 Store locked up.

P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see section 4 on SDS).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P273 Avoid release to the environment.

P391 Collect spillage.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Other hazards which do not result in classification

Product can accumulate electrostatic charges that may cause fire by electrical discharges.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. 1,2,4-Trimethylbenzene

Concentration 10 - 35 % (Weight)

EC no. 202-436-9 CAS no. 95-63-6 Index no. 601-043-00-3

- Flammable liquids (chapter 2.6), Cat. 3

- Acute toxicity (chapter 3.1), Cat. 4

- Eye damage/irritation (chapter 3.3), Cat. 2

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

- Skin corrosion/irritation (chapter 3.2), Cat. 2

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

H226 Flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eve irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects

2. M-Ethyltoluene

Concentration 10 - 20 % (Weight)

CAS no. 620-14-4

3. MESITYLENE

Concentration 5 - 10 % (Weight)

EC no. 203-604-4 CAS no. 108-67-8 Index no. 601-025-00-5

- Flammable liquids (chapter 2.6), Cat. 3

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

H226 Flammable liquid and vapor
H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects

4. P-Ethyltoluene

Concentration 3 - 9 % (Weight)

CAS no. 622-96-8

5. O-Ethyltoluene

Concentration 3 - 9 % (Weight)

CAS no. 611-14-3

6. XYLENES (MIXED)

 Concentration
 2 - 8 % (Weight)

 EC no.
 215-535-7

 CAS no.
 1330-20-7

 Index no.
 601-022-00-9

- Flammable liquids (chapter 2.6), Cat. 3

- Acute toxicity (chapter 3.1), Cat. 4

- Skin corrosion/irritation (chapter 3.2), Cat. 2

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

7. PROPYL BENZENE

 Concentration
 3 - 7 % (Weight)

 EC no.
 203-132-9

 CAS no.
 103-65-1

 Index no.
 601-024-00-X

- Flammable liquids (chapter 2.6), Cat. 3

- Aspiration hazard (chapter 3.10), Cat. 1

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects

8. 1,2,3-Trimethylbenzene

Concentration 3 - 7 % (Weight)

CAS no. 526-73-8

9. Cumene

Concentration 1 - 2 % (Weight) EC no. 202-704-5 CAS no. 98-82-8 Index no. 601-024-00-X

- Flammable liquids (chapter 2.6), Cat. 3 - Aspiration hazard (chapter 3.10), Cat. 1

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects

10. ETHYLBENZENE

Concentration <= 0.5 % (Weight)

EC no. 202-849-4 CAS no. 100-41-4 Index no. 601-023-00-4

- Flammable liquids (chapter 2.6), Cat. 2

- Acute toxicity (chapter 3.1), Cat. 4

H225 Highly flammable liquid and vapor

H332 Harmful if inhaled

11. Aromatic Hydrocarbons

Concentration <= 25 % (Weight)

Trade secret statement (OSHA 1910.1200(i))

Specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice Never give anything by mouth to an unconscious person. If you feel unwell,

seek medical advice (show the label where possible). Suspected of causing

cancer.

If inhaled Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a poison center/doctor/physician if you feel unwell.

In case of skin contact Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

In case of eye contact 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 or

doctor/physician.

Most important symptoms/effects, acute and delayed

Symptoms/injuries: Causes damage to organs.

Symptoms/injuries after inhalation: Danger of serious damage to health by prolonged exposure through

inhalation. Harmful if inhaled. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.

Specific hazards arising from the chemical

Fire hazard: Flammable liquid and vapor.

Explosion hazard: May form flammable/explosive vapor-air mixture.

Special protective actions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution

when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including

respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate unnecessary personnel. Ventilate area.

Methods and materials for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections

See section 8. Exposure controls/personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle empty containers with care because residual vapors are flammable.

Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting/... equipment.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from :

Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

2. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 435 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

3. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 100 ppm, (ST) 150 ppm, (C) 300 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

4. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

REL (Inhalation): 100 ppm, (ST) 150 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

5. Cumene (CAS: 98-82-8)

PEL (Inhalation): 50 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

6. Cumene (CAS: 98-82-8)

PEL (Inhalation): 245 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

7. Cumene (CAS: 98-82-8)

PEL (Inhalation): 50 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

8. Cumene (CAS: 98-82-8)

REL (Inhalation): 50 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

9. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

10. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 435 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

11. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 100 ppm, (ST) 125 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

12. Ethyl benzene (CAS: 100-41-4)

REL (Inhalation): 100 ppm, (ST) 125 ppm (NIOSH) OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical goggles or safety glasses.

Skin protection

Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves should be discarded and replaced if there is any indication of degredation or chemical breakthrough. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection

Wear fire/flame resistant/retardant clothing.

Respiratory protection

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form

Odor

Odor threshold

рΗ

Melting point/freezing point

Initial boiling point and boiling range

Flash point

Evaporation rate

Flammability (solid, gas)
Upper/lower explosive limits

Vapor pressure Vapor density

Relative density Solubility(ies)

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition temperature

Viscosity

Colorless Liquid Sweet. Aromatic. No data available.

N/A < -60 °C

148 - 177 °C 41 °C (closed cup)

No data available. No data available. 1.4 - 7.6 vol %

< 10 mm Hg @ 20°C

3.5 (Air = 1)

0.86 - 0.88 (Water = 1) Water: Negligible

No data available. 280 - 470 °C

No data available. < 2 cSt @ 40°C

Other safety information

Do not eat, drink or smoke during use.

SECTION 10: Stability and reactivity

Reactivity

Flammable liquid and vapor.

Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure: Eye contact. Skin contact. Ingestion. Inhalation.

Acute toxicity: Not classified

Atosol 100 (64742-95-6)		
LD50 oral rat	8400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (ppm)	3400 ppm/4h	
ATE US (oral)	8400.000 mg/kg body weight	
ATE US (gases)	3400.000 ppmV/4h	
1,2,4-trimethylbenzene (95-63-6)		
LD50 oral rat	5000 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg	
LC50 inhalation rat	18 mg/l/4h	
m-Ethyltoluene (620-14-4)		
LD50 oral rat	4300 mg/kg Based on xylenes	
LD50 dermal rabbit	>= 4200 mg/kg Based on xylenes	
LC50 inhalation rat	21.7 mg/l/4h Based on xylenes	
1,3,5-Trimethylbenzene (108-67-8)		
LD50 oral rat	5000 mg/m³ Based on 1,2,4-trimethylbenzene	
LD50 dermal rabbit	> 3160 mg/kg Based on 1,2,4-trimethylbenzene	
LC50 inhalation rat	24 mg/l/4h (Exposure time: 4 h)	

p-Ethyltoluene (622-96-8)		
LD50 oral rat	4300 mg/kg Based on xylenes	
LD50 dermal rabbit	>= 4200 mg/kg Based on xylenes	
LC50 inhalation rat	21.7 mg/l/4h Based on xylenes	
Benzene, 1-ethyl-2-methyl- (611-14-3)	,	
LD50 oral rat	5000 mg/kg	
LD50 dermal rat	10600 mg/kg Based on cumene	
LC50 inhalation rat	39 mg/I/4h Based on cumene	
1,2,3-Trimethylbenzene (526-73-8)		
LD50 oral rat	5000 mg/kg Based on 1,2,4-trimethylbenzene	
LD50 dermal rabbit	> 3160 mg/kg Based on 1,2,4-trimethylbenzene	
LC50 inhalation rat	10.2 mg/l/4h Based on a mixture of trimethylbenzenes.	
Cumene (98-82-8)		
LD50 oral rat	1400 mg/kg	
LD50 dermal rat	10600 mg/kg	
LC50 inhalation rat	39 mg/I/4h	
n-Propylbenzene (103-65-1)		
LD50 oral rat	6040 (6040 - 7500) mg/kg	
LD50 dermal rat	10600 mg/kg Based on Isopropyl benzene	
LC50 inhalation rat	422 g/m³ (Exposure time: 2 h)	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
LD50 oral rat	4300 mg/kg	
LD50 dermal rabbit	> 4200 mg/kg	
LC50 inhalation rat	21.7 mg/l/4h	
Ethylbenzene (100-41-4)		
LD50 oral rat	3500 mg/kg	
LD50 dermal rabbit	15354 mg/kg	
LC50 inhalation rat	17.2 mg/l/4h	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitization Not classified

Carcinogenicity

Suspected of causing cancer.

Caspected of cadoling cancer.		
Cumene (98-82-8)		
IARC group	2B - Possibly carcinogenic to humans	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
IARC group	3 - Not classifiable	
Ethylbenzene (100-41-4)		
IARC group	2B - Possibly carcinogenic to humans	

STOT-single exposure

May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs (lung).

STOT-repeated exposure

Causes damage to organs (nervous system) through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional information

Based on available data, the classification criteria are not met. Harmful if inhaled.

SECTION 12: Ecological information

Toxicity

LC50 fish 1	9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

Disposal of the product

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Disposal of contaminated packaging

Handle empty containers with care because residual vapors are flammable.

Waste treatment

Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

DOT (US)

UN Number: 1268

Class: 3 - Flammable Liquid

Packing Group: III

Proper Shipping Name: Petroleum Distillates, N.O.S.

IMDG

UN Number: 1268

Class: 3 - Flammable Liquid

Packing Group: III EMS Number: 128

Proper Shipping Name: Petroleum Distillates, N.O.S.

IATA

UN Number: 1268

Class: 3 - Flammable Liquid

Packing Group: III

Proper Shipping Name: Petroleum Distillates, N.O.S.

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Chemical name: 1,2,4-Trimethylbenzene

CAS number: 95-63-6

New Jersey Right To Know Components

Common name: PSEUDOCUMENE

CAS number: 95-63-6

Pennsylvania Right To Know Components

Chemical name: Pseudocumene

CAS number: 95-63-6

Massachusetts Right To Know Components

Chemical name: Xylene (mixed isomers)

CAS number: 1330-20-7

New Jersey Right To Know Components

Common name: XYLENES CAS number: 1330-20-7

Pennsylvania Right To Know Components

Chemical name: Benzene, dimethyl-

CAS number: 1330-20-7

California Prop. 65 components

Chemical name: XYLENES (MIXED)

CAS number: 1330-20-7 06/11/2004 - Cancer

New Jersey Right To Know Components

Common name: PROPYL BENZENE

CAS number: 103-65-1

Pennsylvania Right To Know Components

Chemical name: Benzene, propyl-

CAS number: 103-65-1

Massachusetts Right To Know Components

Chemical name: Cumene CAS number: 98-82-8

New Jersey Right To Know Components

Common name: CUMENE CAS number: 98-82-8

Pennsylvania Right To Know Components

Chemical name: Benzene, (1-methylethyl)-

CAS number: 98-82-8

California Prop. 65 components

Chemical name: Cumene CAS number: 98-82-8 04/06/2010 - Cancer

Massachusetts Right To Know Components

Chemical name: Ethylbenzene CAS number: 100-41-4

New Jersey Right To Know Components

Common name: ETHYL BENZENE

CAS number: 100-41-4

Pennsylvania Right To Know Components

Chemical name: Benzene, ethyl-

CAS number: 100-41-4

California Prop. 65 components

Chemical name: ETHYLBENZENE

CAS number: 100-41-4 06/11/2004 - cancer

SARA 313 Components

Chemical name: 1.2.4-Trimethylbenzene

CAS number: 95-63-6

SARA 313 Components

Chemical name: Cumene CAS number: 98-82-8

SARA 313 Components

Common name: XYLENES CAS number: 1330-20-7

SARA 313 Components

Common name: ETHYLBENZENE

CAS number: 100-41-4

SARA 311/312 Hazards

Fire hazard Chronic health hazard Acute health

hazard

HMIS Rating

ARC Cleaning Solvent		
HEALTH	2	
FLAMMABILITY	2	
PHYSICAL HAZARD	0	
PERSONAL PROTECTION		

NFPA Rating



SECTION 16: Other information

GHS formatting changes.

Further information/disclaimer

This information relates 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 our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.

Preparation information

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