



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

ADCOTE™ 503AC

Revision Date: 09/26/2012

Supplier THE DOW CHEMICAL COMPANY*
Agent for Rohm and Haas Chemicals LLC
100 INDEPENDENCE MALL WEST
PHILADELPHIA, PA 19106-2399 United States

For non-emergency information contact: 215-592-3000

Emergency telephone number
1 800 424 9300

Local emergency telephone number
989-636-4400

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Bisphenol A-based epoxy	Not Hazardous	9.0 - 11.0 %
Polyester resin(s)	Not Hazardous	30.0 - 32.0 %
Acetone	67-64-1	59.0 - 61.0 %

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form liquid clear

Hazard Summary	<u>DANGER!</u> EXTREMELY FLAMMABLE. CAUSES SEVERE EYE IRRITATION. IRRITATING TO SKIN. MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.
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Potential Health Effects

Eyes: The solvent(s) in this material can cause the following:

Severe irritation
conjunctivitis
possible corneal injury

Skin: The solvent(s) in this material can cause the following:

slight irritation

Prolonged or repeated overexposure to the solvent(s) in this material can cause the following:

defatting and drying of the skin which can lead to irritation and dermatitis

Ingestion: The solvent(s) in this material can cause the following:

Nausea

Dizziness

Headache

Harmful if swallowed.

Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation: Inhalation of solvent vapor or mist can cause the following:

irritation of nose and throat

coughing

Headache

Nausea

Dizziness

Unconsciousness

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Immediate medical attention is required.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Consult a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Ingestion: Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Drink 1 or 2 glasses of water. Call a physician immediately.

5. FIREFIGHTING MEASURES

Flash point -19 °C (-2.20 °F) closed cup

Ignition temperature 465.0 - 538.0 °C (869.00 - 1,000.40 °F) Acetone

Lower explosion limit 2.60 % volAcetone

Upper explosion limit 12.80 % volAcetone

Suitable extinguishing media:Foam

Carbon dioxide (CO₂)

Dry powder

Water spray

Thermal decomposition Heating or fire conditions liberates toxic gas., Carbon oxides

Specific hazards during firefighting: Vapors can travel to a source of ignition and flash back. Heated material can form flammable or explosive vapors with air. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

Further information: For safety reasons in case of fire, containers should be stored separately in closed containments.
Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Remain upwind.

Avoid breathing smoke.

Remove all sources of ignition.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Evacuate personnel to safe areas.

Remove all sources of ignition.

Ensure adequate ventilation.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits (see section 8). In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. For personal protection see section 8. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied.

Storage

Storage conditions: Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Acetone	Rohm and Haas	TWA	250 ppm
Acetone	Rohm and Haas	STEL	750 ppm
Acetone	ACGIH	TWA	500 ppm
Acetone	ACGIH	STEL	750 ppm
Acetone	OSHA P1	TWA	2,400 mg/m3 1,000 ppm
Acetone	OSHA P0	TWA	1,800 mg/m3 750 ppm
Acetone	OSHA P0	STEL	2,400 mg/m3 1,000 ppm
Acetone	NIOSH REL	TWA	590 mg/m3 250 ppm

Exposure controls

Engineering measures: Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Hygiene measures: Wash hands before breaks and immediately after handling the product.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures

Eye/face protection: Chemical resistant goggles must be worn. Eye protection worn must be compatible with respiratory protection system employed.

Skin protection

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): 4H Glove (Trademark of Safety 4 A/S of Denmark) Norfoil (Trademark of Siebe North, Inc.) Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water.

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operating conditions. Where vapors and/or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid clear
pH	Not Applicable
Boiling point/boiling range	56 °C (132.80 °F)
Flash point	-19 °C (-2.20 °F) closed cup
Evaporation rate	14.40 Acetone
Lower explosion limit	2.60 % volAcetone
Upper explosion limit	12.80 % volAcetone
Vapour pressure	182.0 mmHg at 20 °C (68.00 °F) Acetone
Relative vapour density	2.0Acetone
Relative density	no data available
Water solubility	no data available
Autoignition temperature	465 - 538 °C (869.00 - 1,000.40 °F) Acetone
Viscosity, dynamic	no data availableno data available
Percent volatility	59 - 61 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions This material is considered stable.
However, avoid contact with ignition sources (e.g. sparks, open flame, heated surfaces).

Conditions to avoid Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

No toxicity data are available for this material.

Component: **Acetone**

Acute oral toxicity LD50 rat 5,800 mg/kg

Component: **Acetone**

Acute inhalation toxicity LC50 rat 4 Hour 76 mg/l Vapor

Component: **Acetone**

Acute dermal toxicity LD50 rabbit 20,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

There is no data available for this product.

Acetone

Ecotoxicity effects

Toxicity to fish LC50 Rainbow trout (Oncorhynchus mykiss) 96 Hour
5,540 mg/l

Toxicity to aquatic invertebrates EC50 Daphnia magna 48 Hour
7,635 mg/l

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Disposal

Waste Classification: 40 CFR 261.20 - .24 - Characteristic Waste D001

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of ignitability.

For disposal, incinerate this material at a facility that complies with local, state, and federal regulations. (See 40 CFR 268)

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Acetone solution
UN number	UN 1090
Class	3
Packing group	II
Reportable Quantity	Acetone

Classification for SEA transport (IMO-IMDG):

Proper shipping name	ACETONE SOLUTION
UN number	UN 1090
Class	3
Packing group	II

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Workplace Classification

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

WHMIS: This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Fire Hazard
Acute Health Hazard

SARA TITLE III: Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLA Information (40CFR302.4)

See Section 13, Disposal Considerations, Subsection Disposal, for CERCLA classification. This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused.) The Reportable Quantity(s) (RQ) are listed below. Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.

Acetone

67-64-1

5000 lbs RQ

United States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

California (Proposition 65)

This product contains trace levels of a component or components known to the state of California to cause cancer and birth defects or other reproductive harm:

Components:	Benzene	71-43-2
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California (Proposition 65)

This product contains trace levels of a component or components known to the state of California to cause cancer:

Components:	Cumene	98-82-8
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16. OTHER INFORMATION

HMIS Hazard Rating

Health	Flammability	Physical Hazard
*2	3	0

* = Chronic Effects (See Hazards Identification)

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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