

Revision Date 11/25/2013 Print Date 12/17/2013

#### 1. Identification

Product name : Sarnacol® 2170 VC Membrane Adhesive

Supplier : Sika Corporation

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USA

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ehs@sika-corp.com

Recommended use of the

chemical and restrictions on use

For further information, refer to the product technical data

sheet.

#### 2. Hazards identification

## **GHS Classification**

Flammable liquids, Category 2 Eye irritation, Category 2A Reproductive toxicity, Category 2

Specific target organ systemic toxicity - single exposure , Category 3, Central

nervous system

H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation.

H361: Suspected of damaging fertility or the

unborn child.

H336: May cause drowsiness or dizziness.

#### **GHS Label element**

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233 Keep container tightly closed.

Revision Date 11/25/2013 Print Date 12/17/2013

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.

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

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

#### Response:

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.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

#### 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.

## Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

### 3. Composition/information on ingredients

## **Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
acetone	67-64-1	>= 25 - < 50 %
tert-butyl acetate	540-88-5	>= 25 - < 50 %
Toluene	108-88-3	>= 0 - < 1 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Revision Date 11/25/2013 Print Date 12/17/2013

#### 4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

Respiratory disorder Excessive lachrymation

Loss of balance

Vertigo

See Section 11 for more detailed information on health effects

and symptoms.

irritant effects

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

## 5. Fire-fighting measures

Suitable extinguishing media :

: Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water

High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Specific extinguishing

methods

Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.



Revision Date 11/25/2013 Print Date 12/17/2013

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up : 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

Advice on safe handling

: Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : no data available

#### 8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
acetone	67-64-1	ACGIH	TWA	500 ppm



Revision Date 11/25/2013 Print Date 12/17/2013

1	Í	1	1	1
		ACGIH	STEL	750 ppm
		OSHA Z-1	TWA	1,000 ppm 2,400 mg/m3
		OSHA P0	TWA	750 ppm 1,800 mg/m3
		OSHA P0	STEL	1,000 ppm 2,400 mg/m3
tert-butyl acetate	540-88-5	ACGIH	TWA	200 ppm
		OSHA Z-1	TWA	200 ppm 950 mg/m3
		OSHA P0	TWA	200 ppm 950 mg/m3

<sup>\*</sup>The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

#### \*\*Basis

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

#### **Engineering measures**

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

# Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an



Revision Date 11/25/2013 Print Date 12/17/2013

approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas.

## 9. Physical and chemical properties

Appearance : viscous

Color : milky

off-white

Odor : acetone-like

Odor Threshold : no data available

Flash point : -4 °F (-20 °C)

Ignition temperature : no data available

Decomposition temperature : no data available

Lower explosion limit (Vol%) : 2.5 %(V)

Upper explosion limit (Vol%) : 13 %(V)

Flammability (solid, gas) : no data available

Oxidizing properties : no data available

Autoignition temperature : no data available

pH : Note: not applicable

Melting point/range /

Freezing point

: no data available

Boiling point/boiling range : ca. 133 °F (56 °C)

Vapor pressure : 1.747 mmHg (2.3298 hpa)

Density : ca.0.88 g/cm3

at 73 °F (23 °C)

# Safety Data Sheet



# Sarnacol® 2170 VC Membrane Adhesive

Revision Date 11/25/2013 Print Date 12/17/2013

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : ca.> 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : no data available

Evaporation rate : no data available

Burning rate : no data available

Volatile organic compounds

(VOC) content

348 g/l

# 10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : no data available

# 11. Toxicological information

# **Acute toxicity**

#### **Product**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

# Skin corrosion/irritation

#### **Product**

no data available

# Serious eye damage/eye irritation

## **Product**

Causes serious eye irritation.

Revision Date 11/25/2013 Print Date 12/17/2013

# Respiratory or skin sensitization

#### **Product**

no data available

# Germ cell mutagenicity

**Product** 

Mutagenicity : no data available

# Carcinogenicity

**Product** 

Carcinogenicity : no data available

IARC not applicable
NTP not applicable

Reproductive Toxicity/Fertility

**Product** 

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

# Reproductive Toxicity/Development/Teratogenicity

**Product** 

Teratogenicity : no data available

# STOT-single exposure

# **Product**

Assessment: May cause drowsiness or dizziness.

## STOT-repeated exposure

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

#### **Product**

Assessment: no data available

# **Aspiration toxicity**

# **Product**

no data available

# 12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.



Revision Date 11/25/2013

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Print Date 12/17/2013

#### Component:

acetone 67-64-1 Toxicity to fish:

LC50 Species: Fish Dose: > 5,000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50

Species: Daphnia Dose: 12.700 mg/l Exposure time: 48 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 530 mg/l Exposure time: 96 h

### 13. Disposal considerations

#### **Disposal methods**

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

# 14. Transport information

DOT

UN number 1133

Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Emergency Response 128

Guidebook Number

IATA

UN number 1133

Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Packing instruction (cargo 364

aircraft)

Packing instruction 353

(passenger aircraft)

# Safety Data Sheet



# Sarnacol® 2170 VC Membrane Adhesive

Revision Date 11/25/2013 Print Date 12/17/2013

Packing instruction Y341

(passenger aircraft)

**IMDG** 

UN number 1133

Description of the goods ADHESIVES

 Class
 3

 Packing group
 II

 Labels
 3

 EmS Number 1
 F-E

 EmS Number 2
 S-D

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

# Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

# 15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

# **EPCRA - Emergency Planning and Community Right-to-Know**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## **SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

Clean Air Act

# Safety Data Sheet



# Sarnacol® 2170 VC Membrane Adhesive

Revision Date 11/25/2013

Print Date 12/17/2013

# Ozone-Depletion Potential

Warning: Manufactured with carbon tetrachloride, Carbon Tetrachloride, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### California Prop 65

WARNING! This product contains a chemical known in the

State of California to cause cancer.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

#### 16. Other information

#### **HMIS Classification**



**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

#### Notes to Reader

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Revision Date 11/25/2013 Print Date 12/17/2013

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All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 11/25/2013

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