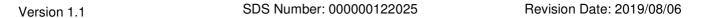
# Sarnacol®-2142 S



#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sarnacol®-2142 S

Product code : 000000122025

Type of product : viscous liquid

#### Recommended use of the chemical and restrictions on use

Product use : Adhesive

#### Manufacturer or supplier's details

Company : Sika (Thailand) Limited

700/37 Moo. 5 Amata Nakorn Estate

Bangna-Trad Km.57 Tambol Klong Tamhru

Muang District Chonburi 20000 Thailand

Telephone : +66 3810 9500 Emergency telephone num- : +66 3821 4270-85

ber

Telefax : +66 3821 4286 E-mail address : Sikathai@th.sika.com

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Flammable liquids : Category 2

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

: Category 2A

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity -

single exposure

: Category 3 (Respiratory system)

Short-term (acute) aquatic

hazard

: Category 3

Long-term (chronic) aquatic

hazard

: Category 3

## **GHS** label elements

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Hazard pictograms







Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

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.

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/ vapours/ spray.

P264 Wash skin thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eve protection/ face protection.

P281 Use personal protective equipment as required.

P285 In case of inadequate ventilation wear respiratory protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

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

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or

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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.

#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
ethyl acetate	141-78-6	>= 10 - < 20
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	>= 1 - < 10
cyclohexane	110-82-7	>= 1 - < 10

#### 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

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.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

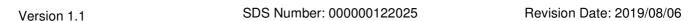
: irritant effects sensitising effects

Asthmatic appearance

Cough

Respiratory disorder Allergic reactions Excessive lachrymation

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**Dermatitis** 

See Section 11 for more detailed information on health effects

and symptoms. Causes skin irritation.

May cause an allergic skin reaction. Causes serious eve irritation.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

Notes to physician : Treat symptomatically.

#### 5. FIREFIGHTING 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.

Hazardous combustion prod-

: No hazardous combustion products are known

Specific extinguishing meth-

ods

: Use water spray to cool unopened containers.

Special protective equipment

for firefighters

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

#### 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons.

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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

: Use explosion-proof equipment. Keep away from Advice on protection against

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fire and explosion heat/sparks/open flames/hot surfaces. No smoking. Take pre-

cautionary measures against electrostatic discharges.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours 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.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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 vapours).

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.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethyl acetate	141-78-6	TWA	400 ppm	TH OEL
cyclohexane	110-82-7	TWA	300 ppm	TH OEL
		TWA	100 ppm	ACGIH

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

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

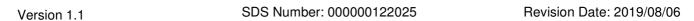
contained breathing apparatus must be used.

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

proved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

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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 concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : blue

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/range / Freezing

point

: No data available

Boiling point/boiling range : ca. 77 °C (171 °F)

Flash point : ca. -18 °C (-0.40 °F)

Method: closed cup

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit : Upper flammability limit

ca. 11.5 %(V)

Lower explosion limit : Lower flammability limit

ca. 2.1 %(V)

Vapour pressure : ca. 97 hPa (73 mmHg)

Relative vapour density : No data available

Density : ca. 1 g/cm3 (20 ℃ (68 °F) ())

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n- : No data available

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octanol/water

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : ca. 2,000 mPa.s (20 °C)

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : No data available

Molecular weight : No data available

#### 10. STABILITY AND REACTIVITY

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

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

: Stable under recommended storage conditions. Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

No decomposition if stored and applied as directed.

#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

Not classified based on available information.

# Components: ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 1,600 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

#### Diphenylmethanediisocyanate, isomeres and homologues:

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

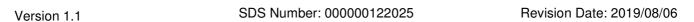
Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgement

Assessment: The component/mixture is moderately toxic after

short term inhalation.

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Acute dermal toxicity : LD50 Dermal (Rabbit): > 9,400 mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

# Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if in-

haled.

## Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

May cause respiratory irritation.

# STOT - repeated exposure

Not classified based on available information.

# **Aspiration toxicity**

Not classified based on available information.

#### 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

## Components:

#### Diphenylmethanediisocyanate, isomeres and homologues:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1,640

mg/l

Exposure time: 72 h

#### Persistence and degradability

No data available

# **Bioaccumulative potential**

No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### **Product:**

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

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Harmful to aquatic life with long lasting effects.

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### 14. TRANSPORT INFORMATION

#### International Regulations

**UNRTDG** 

UN number : UN 1133 Proper shipping name : ADHESIVES

Class : 3
Packing group : II
Labels : 3

**IATA-DGR** 

UN/ID No. : UN 1133
Proper shipping name : Adhesives

Class : 3 Packing group : II

Labels : Flammable Liquids

Packing instruction (cargo : 36

aircraft)

Packing instruction (passen: 353

ger aircraft)

icking instruction (passeri- . . .

IMDG-Code

UN number : UN 1133 Proper shipping name : ADHESIVES

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors

Not applicable

Hazardous Substance Act B.E. 2535

Conditions of restriction for the following entries should be considered: polymeric diphenylmethane diisocy-

anate

(List 5.1, Number on list 488)

Emergency Decree on Controlling the Use of Volatile

Substances B.E. 2533

Banned and/or restricted

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 18.8 %

VOC content excluding water

.

#### **16. OTHER INFORMATION**

Date format : yyyy/mm/dd

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.