

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version
3.0

Revision Date:
2024/07/12

SDS Number:
000000123926

Date of last issue: 2022/02/22
Date of first issue: 2015/11/27

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikagard®-5321 VEL TH Part B

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 number : +66 3821 4270-85

E-mail address : Sikathai@th.sika.com

Telefax : +66 3821 4286

Recommended use of the chemical and restrictions on use

Product use : Corrosion protection, For professional users only.

2. HAZARDS IDENTIFICATION

GHS Classification

Organic peroxides : Type F
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 3
Acute toxicity (Dermal) : Category 4
Skin corrosion/irritation : Category 1
Serious eye damage/eye irritation : Category 1
Reproductive toxicity : Category 1B
Specific target organ toxicity - repeated exposure (Oral) : Category 2

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Specific target organ toxicity - repeated exposure (Inhalation) : Category 2

Long-term (chronic) aquatic hazard : Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements :
H242 Heating may cause a fire.
H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H411 Toxic 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.
P220 Keep/Store away from clothing/combustible materials.
P234 Keep only in original container.
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

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Sikagard®-5321 VEL TH Part B



Version
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induce vomiting.

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

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

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

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

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

P405 Store locked up.

P410 Protect from sunlight.

P411 + P235 Store at temperatures not exceeding 22 °C/ 72 °F. Keep cool.

P420 Store away from other materials.

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
α , α -dimethylbenzyl hydroperoxide	80-15-9	≥ 70 - < 90
2-phenylpropan-2-ol	617-94-7	≥ 1 - < 10
cumene	98-82-8	≥ 1 - < 2.5
acetophenone	98-86-2	≥ 1 - < 10
bis(α , α -dimethylbenzyl) peroxide	80-43-3	≥ 0.3 - < 1

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



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4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
- If inhaled : Call a physician or poison control centre immediately.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Gastrointestinal discomfort
Respiratory disorder
Headache
Dermatitis
Skin disorders
See Section 11 for more detailed information on health effects and symptoms.
Health injuries may be delayed.
corrosive effects
toxic effects for reproduction
Harmful if swallowed or in contact with skin.
Causes serious eye damage.
Toxic if inhaled.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure if swallowed.
May cause damage to organs through prolonged or repeated exposure if inhaled.

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



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Causes severe burns.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : Water
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- 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.
- Special protective equipment for firefighters : 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.
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

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version 3.0	Revision Date: 2024/07/12	SDS Number: 000000123926	Date of last issue: 2022/02/22 Date of first issue: 2015/11/27
----------------	------------------------------	-----------------------------	---

- Advice on protection against fire and explosion : Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Take precautionary measures against electrostatic discharges.
- Advice on safe handling : 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.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Pregnant women or women of child-bearing age should not be exposed to this product.
Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Prevent unauthorized access.
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.
- Recommended storage temperature : -30 - 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
cumene	98-82-8	TWA	50 ppm	TH OEL
		TWA	5 ppm	ACGIH
acetophenone	98-86-2	TWA	10 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 maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version 3.0	Revision Date: 2024/07/12	SDS Number: 000000123926	Date of last issue: 2022/02/22 Date of first issue: 2015/11/27
----------------	------------------------------	-----------------------------	---

the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

- | | | |
|--------------------------|---|---|
| Hand protection | : | Chemical-resistant, impervious gloves complying with an 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.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product. |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|-------------------------------|---|--|
| Appearance | : | liquid |
| Colour | : | colourless |
| Odour | : | pungent |
| Odour Threshold | : | No data available |
| pH | : | ca. 6.0 (20 °C (68 °F))
Concentration: 100 % |
| Melting point/freezing point | : | ca. -30 °C (-22 °F) |
| Boiling point/boiling range | : | 100 °C (212 °F)
Decomposition at boiling point. |
| Flash point | : | > 101 °C (214 °F)
(Method: closed cup)
Decomposition |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper | : | No data available |

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version 3.0	Revision Date: 2024/07/12	SDS Number: 000000123926	Date of last issue: 2022/02/22 Date of first issue: 2015/11/27
----------------	------------------------------	-----------------------------	---

flammability limit

Lower explosion limit / Lower
flammability limit : No data available

Vapour pressure : ca. 4 hPa (20 °C (68 °F))

Relative vapour density : No data available

Density : 1.06 g/cm³ (20 °C (68 °F))

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Self-Accelerating decomposi-
tion temperature (SADT) : 70 °C (158 °F)

Viscosity

Viscosity, dynamic : 10.9 mPa.s (20 °C (68 °F))

Viscosity, kinematic : < 20.5 mm²/s (40 °C (104 °F))

Explosive properties : No data available

Oxidizing properties : No data available

10. STABILITY AND REACTIVITY

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

Chemical stability : No decomposition if stored and applied as directed.

Decomposes on heating.

Possibility of hazardous reac-
tions : Stable under recommended storage conditions.

Conditions to avoid : Do not expose to temperatures above: 40 °C

Incompatible materials : Acids and bases
Reducing agents
Heavy metals

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version
3.0

Revision Date:
2024/07/12

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No data available

Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or in contact with skin.
Toxic if inhaled.

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

May damage fertility or the unborn child.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure if swallowed.
May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified due to lack of data.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version
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Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Send to a licensed waste management company.

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

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 3109
Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID (CUMYL HYDROPEROXIDE)
Class : 5.2
Subsidiary risk : 8
Packing group : Not assigned by regulation
Labels : 5.2 (8)
Environmentally hazardous : yes

IATA-DGR

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version 3.0	Revision Date: 2024/07/12	SDS Number: 000000123926	Date of last issue: 2022/02/22 Date of first issue: 2015/11/27
----------------	------------------------------	-----------------------------	---

UN/ID No. : UN 3109
Proper shipping name : Organic peroxide type F, liquid (Cumyl hydroperoxide)
Class : 5.2
Subsidiary risk : 8
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat, Corrosive
Packing instruction (cargo aircraft) : 570
Packing instruction (passenger aircraft) : 570
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3109
Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID (CUMYL HYDROPEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R
Marine pollutant : yes

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 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

Hazardous Substance Act	: Conditions of restriction for the following entries should be considered: Not applicable
Emergency Decree on Controlling the Use of Volatile Substances	: Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

SAFETY DATA SHEET

Sikagard®-5321 VEL TH Part B



Version 3.0	Revision Date: 2024/07/12	SDS Number: 000000123926	Date of last issue: 2022/02/22 Date of first issue: 2015/11/27
----------------	------------------------------	-----------------------------	---

Volatile organic compounds (VOC) content: 12.5% w/w

16. OTHER INFORMATION

Revision Date : 2024/07/12
Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH	: USA ACGIH Threshold Limit Values (TLV)
TH OEL	: Thailand Occupational Exposure Limits
ACGIH / TWA	: 8-hour, time-weighted average
TH OEL / TWA	: Time weighted average
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	: Chemical Abstracts Service
DNEL	: Derived no-effect level
EC50	: Half maximal effective concentration
GHS	: Globally Harmonized System
IATA	: International Air Transport Association
IMDG	: International Maritime Code for Dangerous Goods
LD50	: Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	: Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	: Occupational Exposure Limit
PBT	: Persistent, bioaccumulative and toxic
PNEC	: Predicted no effect concentration
REACH	: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	: Substances of Very High Concern
vPvB	: Very persistent and very bioaccumulative

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.

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