

SikaThorocoat400 smooth medium fact tb Formerly MProtect HB 400 SM Ser M

Version Revision Date: SDS Number: Date of last issue: 07/17/2020 2.0 09/15/2021 000000260105 Date of first issue: 07/17/2020

SECTION 1. IDENTIFICATION

Product name : SikaThorocoat400 smooth medium fact tb Formerly MProtect

HB 400 SM Ser M

Product code : 00000000051716858

Manufacturer or supplier's details

Company name of supplier : Sika MBCC US LLC

Address : 201 POLITO AVE

Lyndhurst NJ 07071

Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use

Recommended use : Waterproof coating

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity (Inhalation) : Category 1A

Specific target organ toxicity

- repeated exposure

Category 2 (Kidney)

Short-term (acute) aquatic

hazard

Category 3

Long-term (chronic) aquatic

hazard

Category 3

GHS label elements

Hazard pictograms

Signal Word : Danger

Hazard Statements : H350 May cause cancer by inhalation.

H373 May cause damage to organs (Kidney) through prolonged

or repeated exposure. H402 Harmful to aquatic life.



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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.

P260 Do not breathe mist or vapors. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

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

attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------------------------------|------------|-----------------------|
| Limestone | 1317-65-3 | >= 5 - < 25 |
| Titanium dioxide | 13463-67-7 | >= 5 - < 15 |
| Propanoic acid, 2-methyl-, monoester | 25265-77-4 | >= 0 - < 3 |
| with 2,2,4-trimethyl-1,3- pentanediol | | |
| ethylene glycol | 107-21-1 | >= 1 - < 3 |
| Quartz (SiO2) | 14808-60-7 | >= 0.1 - < 1 |
| Isooctylphenol ethoxylate | 9036-19-5 | >= 0.1 - < 0.3 |
| diuron | 330-54-1 | >= 0 - < 0.2 |
| 3-iodo-2-propynyl butylcarbamate | 55406-53-6 | >= 0 - < 0.1 |

SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety.

Immediately remove contaminated clothing.

If inhaled : If difficulties occur after vapour/aerosol has been inhaled,

remove to fresh air and seek medical attention.

In case of skin contact : After contact with skin, wash immediately with plenty of water

and soap.



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Under no circumstances should organic solvent be used.

If irritation develops, seek medical attention.

In case of eye contact Hold eyes open and rinse slowly and gently with water for 15

to 20 minutes. Remove contact lenses, if present, after first 5

minutes, then continue rinsing.

If eye irritation persists, consult a specialist.

If swallowed Immediately rinse mouth and then drink 200-300 ml of water,

> seek medical attention. Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delayed

May cause cancer by inhalation.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Foam

> Water spray Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

water jet

Specific hazards during fire

fighting

See SDS section 10 - Stability and reactivity.

Hazardous combustion prod-

ucts

harmful vapours nitrogen oxides fumes/smoke carbon black carbon oxides

Further information The degree of risk is governed by the burning substance and

the fire conditions.

If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not

allow to reach sewage or effluent systems.

Contaminated extinguishing water must be disposed of in

accordance with official regulations.

for fire-fighters

Special protective equipment : Wear a self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

Do not breathe vapour/aerosol/spray mists.

Wear eye/face protection.



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gency procedures If exposed to high vapour concentration, leave area immedi-

ately.

Use personal protective clothing.

Handle in accordance with good building materials hygiene

and safety practice.

Environmental precautions : Contain contaminated water/firefighting water.

Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Avoid aerosol formation.

Avoid inhalation of mists/vapours.

Avoid skin contact.
Avoid contact with eyes.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Protect from direct sunlight.

Recommended storage tem-

perature

> 39 °F / > 4 °C

Further information on stor-

age stability

PROTECT FROM FREEZING DURING THE COLD-SEASON

(BELOW 40°F / 5°C).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-----------------|----------|-------------------------------------|--|-------|
| ethylene glycol | 107-21-1 | TWA (Vapor) | 25 ppm | ACGIH |
| | | STEL (Va- por) | 50 ppm | ACGIH |
| | | STEL (Inhal- | 10 mg/m3 | ACGIH |



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| | | able fraction, Aerosol only) | | |
|------------------|------------|-------------------------------------|--------------------------------------|------------------------|
| | | С | 50 ppm 125 mg/m3 | OSHA P0 |
| diuron | 330-54-1 | TWA value | 10 mg/m3 | ACGIHTLV |
| | | REL value | 10 mg/m3 | NIOSH |
| | | TWA value | 10 mg/m3 | 29 CFR |
| | | | | 1910.1000 |
| | | T) \ \ \ \ | 40 | (Table Z-1-A) ACGIH |
| | | TWA TWA | 10 mg/m3 | NIOSH REL |
| | | | 10 mg/m3 | |
| Limantona | 4047 CF 0 | TWA (total | 10 mg/m3 | OSHA P0 OSHA Z-1 |
| Limestone | 1317-65-3 | TWA (total dust) | 15 mg/m3 | |
| | | TWA (respirable fraction) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Total dust) | 15 mg/m3 | OSHA P0 |
| | | TWA (respirable dust fraction) | 5 mg/m3 | OSHA P0 |
| | | TWA (Respirable) | 5 mg/m3 (Calcium car- bonate) | NIOSH REL |
| | | TWA (total) | 10 mg/m3 (Calcium car- bonate) | NIOSH REL |
| Titanium dioxide | 13463-67-7 | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (Total dust) | 10 mg/m3 | OSHA P0 |
| | | TWA | 10 mg/m3 (Titanium dioxide) | ACGIH |
| Quartz (SiO2) | 14808-60-7 | TWA (Respirable dust) | 0.05 mg/m3 | OSHA Z-1 |
| | | TWA (respirable) | 10 mg/m3 / %SiO2+2 | OSHA Z-3 |
| | | TWA (respirable) | 250 mppcf / %SiO2+5 | OSHA Z-3 |
| | | TWA (respirable dust fraction) | 0.1 mg/m3 | OSHA P0 |
| | | TWA (Respirable particulate matter) | 0.025 mg/m3 (Silica) | ACGIH |
| | | PEL (respir- able) | 0.05 mg/m3 | OSHA CARC |
| | | TWA (Respirable dust) | 0.05 mg/m3 (Silica) | NIOSH REL |

Engineering measures : Ensure adequate ventilation.



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Personal protective equipment

Respiratory protection : Wear appropriate certified respirator when exposure limits

may be exceeded.

Use NIOSH approved respiratory protection.

Hand protection

Remarks : Wear chemical resistant protective gloves. Manufacturer's

directions for use should be observed because of great di-

versity of types.

Eye protection : Wear safety glasses with side shields or goggles.

Skin and body protection : Impermeable protective clothing

Body protection must be chosen depending on activity and

possible exposure, e.g. head protection, apron, protective

boots, chemical-protection suit.

Protective measures : Do not inhale gases/vapours/aerosols.

Avoid contact with the skin, eyes and clothing.

Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene

and safety practice.

Wearing of closed work clothing is recommended.

Hygiene measures : When using, do not eat, drink or smoke.

Hands and/or face should be washed before breaks and at

the end of the shift.

At the end of the shift the skin should be cleaned and skin-

care agents applied.

Remove contaminated clothing immediately and clean before

re-use or dispose it if necessary.

Gloves must be inspected regularly and prior to each use.

Replace if necessary (e.g. pinhole leaks).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : opaque

Odor Threshold : not determined

pH : approx. 9.5 - 10.0 (68 °F / 20 °C)

Melting point : No data available

Boiling point : 379 - 471 °F / 193 - 244 °C

Flash point : 200.01 °F / 93.34 °C



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Evaporation rate : No data available

Flammability (liquids) : not highly flammable

Method: derived from flash point

Upper explosion limit / Upper

flammability limit

15.3 %(V)

Lower explosion limit / Lower

flammability limit

0.6 %(V)

Vapor pressure : No data available

Relative vapor density : Heavier than air.

Relative density : No data available

Density : approx. 1.37 - 1.49 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : partly soluble (68 °F / 20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

not applicable for mixtures

Autoignition temperature : No data available

Decomposition temperature : No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Based on its structural properties the product is not classified

as oxidizing.

Sublimation point : No data available

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as pre-

scribed/indicated.



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Chemical stability : The product is stable if stored and handled as pre-

scribed/indicated.

Possibility of hazardous reac-

tions

The product is stable if stored and handled as pre-

scribed/indicated.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents Strong reducing agents

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) 14808-60-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

Titanium dioxide 13463-67-7

OSHA specifically regulated carcinogen

Quartz (SiO2) 14808-60-7

(crystalline silica)

NTP Known to be human carcinogen

Quartz (SiO2) 14808-60-7



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(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.

The product has not been tested. The statements on toxicology have been derived from the properties of the individual

components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:

diuron:

M-Factor (Acute aquatic tox- : 10

icity)

M-Factor (Chronic aquatic :

toxicity)

10

3-iodo-2-propynyl butylcarbamate:

M-Factor (Acute aquatic tox- : 10

icity)

M-Factor (Chronic aquatic

toxicity)

: 1



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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 infor-

mation

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with national, state and local regula-

tions.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable



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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ | Calculated product RQ |
|-------------|------------|--------------|-----------------------|
| | | (lbs) | (lbs) |
| carbendazim | 10605-21-7 | 10 | 22222 |

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

ethylene glycol 107-21-1 >= 1 - < 5 %

US State Regulations

Pennsylvania Right To Know

| Limestone | 1317-65-3 |
|---------------------------|------------|
| Titanium dioxide | 13463-67-7 |
| ethylene glycol | 107-21-1 |
| diuron | 330-54-1 |
| ammonia | 7664-41-7 |
| ammonia, aqueous solution | 1336-21-6 |

New Jersey Right To Know

| Limestone | 1317-65-3 |
|-------------------------|------------|
| Titanium dioxide | 13463-67-7 |
| Wollastonite (Ca(SiO3)) | 13983-17-0 |
| ethylene glycol | 107-21-1 |
| Quartz (SiO2) | 14808-60-7 |

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer, and

ethylene glycol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : All chemical substances in this product are either listed as

active on the TSCA Inventory or are in compliance with a

TSCA Inventory exemption.

Canadian lists

The following substance(s) is/are subject to a Significant New Activity Notification: carbendazim 10605-21-7

SECTION 16. OTHER INFORMATION

Further information

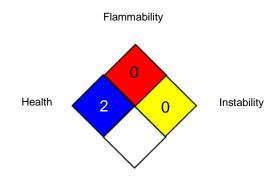


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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

1-A)

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV : American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

NIOSH

SINOSH Pocket Guide to Chemical Hazards (US)

NIOSH REL

SINOSH Recommended Exposure Limits

SINOSH Recommended Exposure Limits

SINOSHA CARC

SINOSHA Specifically Regulated Chemicals/Carcinogens

SINOSHA PO

SINOSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

1-A) / TWA value

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
ACGIHTLV / TWA value : Time Weighted Average (TWA):
NIOSH / REL value : Recommended exposure limit (REL):

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA CARC / PEL : Permissible exposure limit (PEL)
OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic



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Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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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