Importers and dealers of
- Natural and Organic Oils
- Essential Oils
- Natural Powders
- Clays, etc
- Agro Products
- General Contracts

Safety Data Sheet MSDS / SDS
Decamethylcyclopentasiloxane

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

- Product name: Decamethylcyclopentasiloxane
- CAS: 541-02-6
- EINECS Number: 208-764-9
- Synonyms: CYCLOPENTASILOXANE,Cyclopentasiloxane, decamethyl-

Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified uses: For R&D use only. Not for medicinal, household or other use.
- Uses advised against: none

Company Identification

- Company: Sophix Natural Agro & Products Ltd.
- Address: 5, Olayinka Owodunni Street, Off Sule Abore, Behind NNPC Filling Station, Ojodu Berger, Lagos.
- Telephone: 0086-18091843361

SECTION 2: Hazards identification

GHS Label elements, including precautionary statements

- Signal wordWarning

Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P264 Wash hands thoroughly after handling.
P264 Wash skin thouroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use … for extinction.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to..…
Hazard statements
H227 Combustible liquid
H320 Causes eye irritation
H413 May cause long lasting harmful effects to aquatic life

SECTION 3: Composition/information on ingredients

Substance

- Product name: Decamethylcyclopentasiloxane
- Synonyms: CYCLOPENTASILOXANE,Cyclopentasiloxane, decamethyl-

- CAS: 541-02-6
- EC number: 208-764-9
- MF: C10H30O5Si5
- MW: 370.77

SECTION 4: First aid measures

Description of first aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

Do NOT use water jet.

Special hazards arising from the substance or mixture

Carbon oxides silicon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

NFPA 704

0
2
0

HEALTH	0	Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials
FIRE	2	Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur and multiple finely divided suspended solids that do not require heating

		before ignition can occur. Flash point between 37.8 and 93.3 °C (100 and 200 °F). (e.g. diesel fuel, sulfur)
REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium,N2)
SPEC. HAZ.		

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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). Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid inhalation of vapor or mist.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

control parameter

Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

Exposure controls

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full- face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

- Appearancecolorless clear, liquid
- OdourNo data available
- Odour ThresholdNo data available
- pHNo data available
- Melting point/freezing point-38 °C at 1.013 hPa
- Initial boiling point and boiling range90 °C at 13 hPa - lit. 210 °C at 1.013 hPa - lit.
- Flash point73 °C - closed cup
- Evaporation rateNo data available
- Flammability (solid, gas)No data available
- Upper/lower flammability or explosive limits0.52-7%(V)
- Vapour pressure0,3 hPa at 25 °C 41 hPa at 110,6 °C
- Vapour densityNo data available
- Relative density0,958 g/cm3 at 25 °C - lit. 0,96 at 20 °C
- Water solubility< 0,00001 g/l at 23 °C
- Partition coefficient: n-octanol/waterlog Pow: 8,023 at 25,3 °C
- Autoignition temperature645,15 K
- Decomposition temperatureNo data available
- ViscosityViscosity, kinematic: No data available Viscosity, dynamic: No data available
- Explosive propertiesNo data available
- Oxidizing propertiesNo data available

Other safety information

No data available

SECTION 10: Stability and reactivity

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - > 5.000 mg/kg (OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 4 h - 8,67 mg/l (OECD Test Guideline 403)
LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 24 h (OECD Test Guideline 404)
Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation - 24 h (OECD Test Guideline 405)
Respiratory or skin sensitization
in vivo assay - Mouse
Result: Does not cause skin sensitization. (OECD Test Guideline 429)
Germ cell mutagenicity
Test Type: Ames test
Test system: S. typhimurium
Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471
Result: negative
Test Type: in vivo assay Species: Rat
Application Route: Inhalation Method: OECD Test Guideline 486 Result: negative
Carcinogenicity
No data available
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
Toxicity

LD50 oral in rat: > 24134mg/kg

SECTION 12: Ecological information

Toxicity

No toxicity at the limit of solubility.

Persistence and degradability

Biodegradability anaerobic - Exposure time 28 d
Result: 0,14 % - Not biodegradable.

Bioaccumulative potential

Bioaccumulation Pimephales promelas (fathead minnow) - 35 d at 22 °C - 0,0011 mg/l

Bioconcentration factor (BCF): 7.060 (OECD Test Guideline 305)
Remarks: Can accumulate in aquatic organisms.

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Toxics Screening Level

The initial threshold screening level (ITSL) for decamethylcyclopentasiloxane is 200 µg/m3, with annual averaging time.

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

No data available

SECTION 15: Regulatory information

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

Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

Measures for Environmental Management of New Chemical Substances

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Listed. website: https://www.mee.gov.cn/
EC Inventory:Listed.
European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/
Korea Existing Chemicals List (KECL):Listed. website: http://ncis.nier.go.kr
New Zealand Inventory of Chemicals (NZIoC):Listed. website: https://www.epa.govt.nz/
Philippines Inventory of Chemicals and Chemical Substances (PICCS):Listed. website: https://emb.gov.ph/
United States Toxic Substances Control Act (TSCA) Inventory:Listed. website: https://www.epa.gov/
Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/

SECTION 16: Other information

Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS: Chemical Abstracts Service
- EC50: Effective Concentration 50%
- IATA: International Air Transportation Association
- IMDG: International Maritime Dangerous Goods
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- STEL: Short term exposure limit
- TWA: Time Weighted Average