

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

DOW CORNING

DOW CORNING(R) 1200 OS PRIMER CLEAR

Version 1.3 Revision Date: 2015/10/13 SDS Number: 643123-00004 Date of last issue: 2015/07/29
Date of first issue: 2014/10/17

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) 1200 OS PRIMER CLEAR
Product code : 000000000002736276, 000000000002736276
Chemical nature : Inorganic and organic compounds, Mixture

Manufacturer or supplier's details

Company : Dow Corning (Zhangjiagang) Holding Company Limited
Address : 18 Beihai Road, Yangtze River International Chemical Industry Park, Zhangjiagang, Jiangsu Province, P.R.C., Postal Code: 215634
Telephone : 400 880 7110
Emergency telephone number : (86 512) 56732049
E-mail address : China.info@dowcorning.com

Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

2. HAZARDS IDENTIFICATION


Emergency Overview

Appearance : liquid
Colour : colourless
Odour : slight
Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage.

GHS Classification

Flammable liquids : Category 3
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

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Hazard statements : H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Flammable liquid and vapour.

Health hazards

Causes skin irritation. Causes serious eye damage.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

Static-accumulating flammable liquid.
Vapours may form explosive mixture with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Octamethyltrisiloxane	107-51-7	>= 70 - < 90
Tetrakis(2-butoxyethyl) orthosilicate	18765-38-3	>= 1 - < 10

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Titanium tetrabutanolate	5593-70-4	>= 1 - < 10
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4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
Causes serious eye damage.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- Notes to physician : Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapours may form explosive mixtures with air.

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Fire burns more vigorously than would be expected.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Silicon oxides
Formaldehyde
Metal oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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7. HANDLING AND STORAGE

Handling

- Technical measures : Ensure all equipment is electrically grounded before beginning transfer operations.
This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.
Restrict flow velocity in order to reduce the accumulation of static electricity.
- Local/Total ventilation : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.
Avoid inhalation of vapour or mist.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from water.
Protect from moisture.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.
- Avoidance of contact : Oxidizing agents
Water

Storage

- Conditions for safe storage : Keep in properly labelled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.
- Materials to avoid : Do not store with the following product types:
Self-reactive substances and mixtures
Organic peroxides
Oxidizing agents
Flammable gases
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Poisonous gases

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Explosives

Packaging material : Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Octamethyltrisiloxane	107-51-7	TWA	200 ppm	DCC OEL

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-1-ol	71-23-8	PC-TWA	200 mg/m ³	GBZ 2.1-2007
		PC-STEL	300 mg/m ³	GBZ 2.1-2007
		TWA	100 ppm	ACGIH
2-Butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
Butan-1-ol	71-36-3	PC-TWA	100 mg/m ³	GBZ 2.1-2007
		TWA	20 ppm	ACGIH

Engineering measures : Processing may form hazardous compounds (see section 10).
Minimize workplace exposure concentrations.
Use only in an area equipped with explosion proof exhaust ventilation.
Use with local exhaust ventilation.

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.

Filter type : Organic vapour type

Eye/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

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Hand protection

Material : Antistatic gloves

Material : Impervious gloves

Material : Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless

Odour : slight

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 100 °C

Flash point : 27 °C
Method: closed cup

Evaporation rate : No data available

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Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 0.82
Solubility(ies)	
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: 1 mm ² /s
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: No data available

10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Flammable liquid and vapour. Vapours may form explosive mixture with air. Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	: Exposure to moisture Handling operations that can promote accumulation of static charges.

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Heat, flames and sparks.

Incompatible materials : Oxidizing agents
Water

Hazardous decomposition products
Contact with water or humid air : Propan-1-ol
2-Butoxyethanol
Butan-1-ol

Thermal decomposition : Formaldehyde

11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

Octamethyltrisiloxane:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on test data

Acute inhalation toxicity : LC50 (Rat): > 2350 ppm
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on test data

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on test data

Tetrakis(2-butoxyethyl) orthosilicate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Information taken from reference works and the literature.

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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Information taken from reference works and the literature.

Titanium tetrabutanolate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Skin corrosion/irritation

Causes skin irritation.

Components:

Octamethyltrisiloxane:

Species: Rabbit
Result: No skin irritation
Remarks: Based on test data

Tetrakis(2-butoxyethyl) orthosilicate:

Species: Rabbit
Result: Skin irritation
Remarks: Based on test data

Titanium tetrabutanolate:

Result: Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Octamethyltrisiloxane:

Result: No eye irritation
Remarks: Based on data from similar materials

Tetrakis(2-butoxyethyl) orthosilicate:

Species: Rabbit
Result: No eye irritation
Remarks: Information taken from reference works and the literature.

Titanium tetrabutanolate:

Species: Rabbit
Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Components:

Octamethyltrisiloxane:

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Assessment: Does not cause skin sensitisation.

Test Type: Human repeat insult patch test (HRIPT)

Species: Humans

Remarks: No known sensitising effect.

Based on test data

Tetrakis(2-butoxyethyl) orthosilicate:

Assessment: Does not cause skin sensitisation.

Test Type: Buehler Test

Remarks: No known sensitising effect.

Information taken from reference works and the literature.

Titanium tetrabutanolate:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Octamethyltrisiloxane:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on test data

: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data

Titanium tetrabutanolate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Octamethyltrisiloxane:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: inhalation (vapour)
Symptoms: No effects on fertility
Remarks: Based on test data

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Test Type: Uterotrophic assay
Species: Rat, female
Application Route: inhalation (vapour)
Result: negative
Remarks: Based on test data

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: inhalation (vapour)
Symptoms: No effects on foetal development
Remarks: Based on test data

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Components:

Titanium tetrabutanoate:

Assessment: May cause respiratory irritation.

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

Octamethyltrisiloxane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Repeated dose toxicity

Components:

Octamethyltrisiloxane:

Species: Rat

Application Route: Ingestion

Remarks: Based on test data

Species: Rat

Application Route: inhalation (vapour)

Remarks: Based on test data

Aspiration toxicity

Not classified based on available information.

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Further information

Components:

Octamethyltrisiloxane:

Remarks: This material contains octamethyltrisiloxane (L3). Repeated inhalation exposure in rats to L3 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Octamethyltrisiloxane:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.019 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on test data
No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.020 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.0094 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.027 mg/l
Method: OECD Test Guideline 210
Remarks: Based on test data
No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia sp.): > 0.15 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility
- Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Tetrakis(2-butoxyethyl) orthosilicate:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 201 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other : EC50 (Daphnia sp.): > 90 mg/l

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aquatic invertebrates Exposure time: 48 h
Method: EG 84/449
Remarks: No toxicity at the limit of solubility

Toxicity to algae : ErC50 (Scenedesmus subspicatus): > 161 mg/l
Exposure time: 72 h
Method: 88/302/EC

Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

Octamethyltrisiloxane:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Method: OECD Test Guideline 310

Stability in water : Degradation half life: 329 h pH: 7
Method: OECD Test Guideline 111
Remarks: Based on test data

Tetrakis(2-butoxyethyl) orthosilicate:

Biodegradability : Result: Readily biodegradable
Biodegradation: 83 %
Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

Octamethyltrisiloxane:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): ≥ 500
Method: OECD Test Guideline 305
Remarks: Biomagnification factor <1

Partition coefficient: n-octanol/water : log Pow: ≥ 4
Remarks: Based on test data

Titanium tetrabutanolate:

Partition coefficient: n-octanol/water : log Pow: 0.88

Mobility in soil

No data available

Other adverse effects

No data available

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13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Dispose of in accordance with local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.
If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulation

UNRTDG

- UN number : UN 1993
- Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Octamethyltrisiloxane, Organo Titanate)
- Class : 3
- Packing group : III
- Labels : 3

IATA-DGR

- UN/ID No. : UN 1993
- Proper shipping name : Flammable liquid, n.o.s.
(Octamethyltrisiloxane, Organo Titanate)
- Class : 3
- Packing group : III
- Labels : Flammable Liquids
- Packing instruction (cargo aircraft) : 366
- Packing instruction (passenger aircraft) : 355

IMDG-Code

- UN number : UN 1993
- Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Octamethyltrisiloxane, Organo Titanate)
- Class : 3
- Packing group : III
- Labels : 3
- EmS Code : F-E, S-E
- Marine pollutant : no

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

- UN number : UN 1993

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Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane, Organo Titanate)
Class	:	3
Packing group	:	III
Labels	:	3

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

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

NZIoC	:	All ingredients listed or exempt.
REACH	:	All ingredients (pre-)registered or exempt.
TSCA	:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
IECSC	:	All ingredients listed or exempt.
ENCS/ISHL	:	All components are listed on ENCS/ISHL or exempted from inventory listing.
PICCS	:	All ingredients listed or exempt.
DSL	:	This product contains one or more substances which are not on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult Dow Corning Regulatory Compliance.
AICS	:	Consult your local Dow Corning office.
KECI	:	One or more ingredients are not listed or exempt.
TCSI	:	All ingredients listed or exempt.

16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd
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Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
DCC OEL	: Dow Corning Guide
GBZ 2.1-2007	: Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA	: 8-hour, time-weighted average
DCC OEL / TWA	: Time weighted average
GBZ 2.1-2007 / PC-TWA	: Permissible concentration - time weighted average
GBZ 2.1-2007 / PC-STEL	: Permissible concentration - short term exposure limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, in-

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

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cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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