according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE

DISPERSION

Product code : 00000000001231367

Chemical nature : Aminofunctional Siloxane

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 : Lubricants and lubricant additives

Intermediate

## 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance : liquid
Colour : Straw
Odour : solvent-like

Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs (Central nervous system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

**GHS Classification** 

Flammable liquids : Category 2

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

: Category 2A

Specific target organ toxicity -

single exposure

: Category 3

Specific target organ toxicity - : Category 1 (Central nervous system)

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL **GRADE DISPERSION**

Version Revision Date: MSDS Number: Date of last issue: -

2015/02/04 1209569-00001 Date of first issue: 2015/02/04 1.0

repeated exposure

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 2

**GHS Label element** 

Hazard pictograms









Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H372 Causes damage to organs (Central nervous system)

through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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.

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 protec-

tion/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep 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.

P314 Get medical advice/ attention if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ atten-

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

tention.

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

P362 + P364 Take off contaminated clothing and wash it before

reuse

P391 Collect spillage.

Storage:

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.

## Physical and chemical hazards

Highly flammable liquid and vapour.

#### **Health hazards**

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.

#### **Environmental hazards**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### 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 (%)
Dimethyl siloxane, 3-(2-	71750-80-6	>= 30 - < 50
aminoethyl)aminopropyldimethoxysiloxy- terminated		
	<del> </del>	
Solvent naphtha (petroleum), medium aliph.	64742-88-7	>= 30 - < 50
Stoddard solvent	8052-41-3	>= 30 - < 50
Propan-2-ol	67-63-0	>= 10 - < 20
1,2,4-Trimethylbenzene	95-63-6	>= 1 - < 10
Methanol	67-56-1	>= 1 - < 10
Oligomers of aminoalkylmethoxysilanes	Not Assigned	>= 0.1 - < 1
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 - < 1

## 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice 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.

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

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.

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 irritation.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated

exposure.

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

Dry chemical

Carbon dioxide (CO2)

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.

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

Carbon oxides Silicon oxides

Nitrogen oxides (NOx)

Formaldehyde

Specific extinguishing meth-

ods

: Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

2015/02/04 1209569-00001 Date of first issue: 2015/02/04 1.0

Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

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, protec- :

tive equipment and emer-

gency procedures

Remove all sources of ignition.

Ventilate the area.

Use personal protective equipment.

Follow safe handling advice and personal protective equip-

ment recommendations.

: Discharge into the environment must be avoided. **Environmental precautions** 

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 absor-

bent.

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 deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### 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

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

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.

Do not breathe vapours or spray 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 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

**Storage** 

Conditions for safe storage : Keep in properly labelled containers.

Store locked up. 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 Explosives

Packaging material : Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH	
Propan-2-ol	67-63-0	PC-TWA	350 mg/m3	GBZ 2.1- 2007	
		PC-STEL	700 mg/m3	GBZ 2.1- 2007	
		TWA	200 ppm	ACGIH	
		STEL	400 ppm	ACGIH	
Methanol	67-56-1	PC-TWA	25 mg/m3	GBZ 2.1- 2007	
	Further information: Skin				
		PC-STEL	50 mg/m3	GBZ 2.1- 2007	
	Further information: Skin				
		TWA	200 ppm	ACGIH	
		STEL	250 ppm	ACGIH	
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	DCC OEL	

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

**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 : Self-contained breathing apparatus

Eye/face protection : Wear the following personal protective equipment:

Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

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).

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 : Straw

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Initial boiling point and boiling

range

: > 82.00 °C

Flash point : 13.3 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data available

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 : 0.865

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 : 160 cSt

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 reac-

tions

: Highly flammable liquid and vapour.

Vapours may form explosive mixture with air.

Use at elevated temperatures may form highly hazardous

compounds.

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Can react with strong oxidizing agents.

Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid : Handling operations that can promote accumulation of static

charges.

Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition products

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

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

**Components:** 

Solvent naphtha (petroleum), medium aliph.:

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

Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat): > 5.28 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

toxicity

Stoddard solvent:

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

Acute inhalation toxicity : LC50 (Rat): > 5.5 mg/l, > 934 ppm

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50: > 5,000 mg/kg

Propan-2-ol:

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

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

1,2,4-Trimethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,400 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10.2 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 3,160 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Methanol:

Acute oral toxicity : Acute toxicity estimate (Humans): 300 mg/kg

Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate (Humans): 3 mg/l

Test atmosphere: vapour Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate (Humans): 300 mg/kg

Method: Expert judgement

Octamethylcyclotetrasiloxane:

Acute oral toxicity : LD50 (Rat): > 4,800 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: Based on test data

Acute inhalation toxicity : LC50 (Rat): 2975 ppm

Exposure time: 4 h

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on test data

Acute dermal toxicity : LD50 (Rabbit): > 2.5 ml/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on test data

#### Skin corrosion/irritation

Causes skin irritation.

#### **Components:**

#### Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated:

Result: Skin irritation

Remarks: Based on data from similar materials

#### Solvent naphtha (petroleum), medium aliph.:

Species: Rabbit Result: Skin irritation

#### Stoddard solvent:

Assessment: Repeated exposure may cause skin dryness or cracking.

## Propan-2-ol:

Species: Rabbit

Result: No skin irritation

## 1,2,4-Trimethylbenzene:

Species: Rabbit Result: Skin irritation

Remarks: Based on data from similar materials

#### Methanol:

Species: Rabbit

Result: No skin irritation

#### Oligomers of aminoalkylmethoxysilanes:

Species: Rabbit

Result: Mild skin irritation Remarks: Based on test data

## Octamethylcyclotetrasiloxane:

Species: Rabbit

Result: No skin irritation Remarks: Based on test data

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### **Components:**

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

#### Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated:

Result: Irritation to eyes, reversing within 21 days Remarks: Based on data from similar materials

## Solvent naphtha (petroleum), medium aliph.:

Species: Rabbit Result: No eye irritation

#### Stoddard solvent:

Species: Rabbit Result: No eye irritation

### Propan-2-ol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

### 1,2,4-Trimethylbenzene:

Result: Irritation to eyes, reversing within 21 days

## Methanol:

Species: Rabbit

Result: No eye irritation

### Oligomers of aminoalkylmethoxysilanes:

Species: Rabbit

Result: Irreversible effects on the eye

Remarks: Based on test data

#### Octamethylcyclotetrasiloxane:

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

### Respiratory or skin sensitisation

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

## **Product:**

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: Based on test data

### Components:

## Solvent naphtha (petroleum), medium aliph.:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

#### Stoddard solvent:

Exposure routes: Skin contact

Species: Guinea pig Result: negative

#### Propan-2-ol:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

## 1,2,4-Trimethylbenzene:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

#### Methanol:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact

Species: Guinea pig Result: negative

#### Oligomers of aminoalkylmethoxysilanes:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: Causes sensitisation.

Information taken from reference works and the literature.

#### Octamethylcyclotetrasiloxane:

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: Based on test data

## Germ cell mutagenicity

Not classified based on available information.

#### **Product:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on test data

#### Components:

Solvent naphtha (petroleum), medium aliph.:

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 478

Result: negative

Remarks: Based on data from similar materials

Stoddard solvent:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

1,2,4-Trimethylbenzene:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

Methanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Octamethylcyclotetrasiloxane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on test data

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Result: negative

Remarks: Based on test data

: Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on test data

: Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Remarks: Based on test data

: Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro)

Result: negative

Remarks: Based on test data

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on test data

Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on test data

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

### Carcinogenicity

Not classified based on available information.

### **Components:**

Solvent naphtha (petroleum), medium aliph.:

Species: Mouse

Application Route: Skin contact Exposure time: 62 weeks

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Method: OECD Test Guideline 451

Result: negative

Remarks: Based on data from similar materials

Propan-2-ol: Species: Rat

Application Route: inhalation (vapour)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

Methanol: Species: Mouse

Application Route: inhalation (vapour)

Exposure time: 18 Months

Method: OECD Test Guideline 453

Result: negative

#### Reproductive toxicity

Not classified based on available information.

#### **Components:**

Solvent naphtha (petroleum), medium aliph.:

Effects on fertility : Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

1,2,4-Trimethylbenzene:

Effects on fertility : Test Type: Three-generation reproduction toxicity study

Species: Rat

Application Route: inhalation (vapour) Method: OECD Test Guideline 416

Result: negative

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour) Method: OECD Test Guideline 414

Result: negative

Methanol:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Mouse

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

: Test Type: Embryo-foetal development

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 414

Result: positive

Remarks: The effects were seen only at maternally toxic dos-

es.

Octamethylcyclotetrasiloxane:

Effects on fertility

Test Type: Two-generation reproduction toxicity study

Species: Rat, male and female

Application Route: inhalation (vapour)

Symptoms: Effects on fertility Remarks: Based on test data

Effects on foetal develop-

ment

: Test Type: Prenatal development toxicity study (teratogenicity)

Species: Rabbit

Application Route: inhalation (vapour) Symptoms: No effects on foetal development

Remarks: Based on test data

Reproductive toxicity - As-

sessment

: Some evidence of adverse effects on sexual function and

fertility, based on animal experiments.

#### STOT - single exposure

May cause drowsiness or dizziness.

## **Components:**

#### Solvent naphtha (petroleum), medium aliph.:

Assessment: May cause drowsiness or dizziness.

## Stoddard solvent:

Assessment: May cause drowsiness or dizziness.

#### Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

## 1,2,4-Trimethylbenzene:

Assessment: May cause respiratory irritation.

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

#### Methanol:

Target Organs: Eyes, Central nervous system Assessment: Causes damage to organs.

### STOT - repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

#### **Components:**

## Solvent naphtha (petroleum), medium aliph.:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

#### Stoddard solvent:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

### Octamethylcyclotetrasiloxane:

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.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg

bw or less.

#### Repeated dose toxicity

### **Components:**

#### Solvent naphtha (petroleum), medium aliph.:

Species: Rat NOAEL: 2.34 mg/l LOAEL: 4.67 mg/l

Application Route: inhalation (vapour)

Exposure time: 6 m

Remarks: Based on data from similar materials

#### Stoddard solvent:

Species: Rat NOAEL: 2.34 mg/l LOAEL: 4.67 mg/l

Application Route: inhalation (vapour)

Exposure time: 6 m

Propan-2-ol: Species: Rat NOAEL: 5000 ppm

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Application Route: inhalation (vapour)

Exposure time: 104 w

Method: OECD Test Guideline 413

## 1,2,4-Trimethylbenzene:

Species: Rat NOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 90 d

Species: Rat

NOAEL: 1800 mg/m3

Application Route: inhalation (vapour)

Exposure time: 12 m

#### Methanol:

Species: Rat NOAEL: 1.06 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 d

## Octamethylcyclotetrasiloxane:

Species: Rat

Application Route: Ingestion Remarks: Based on test data

Species: Rat

Application Route: inhalation (vapour)

Remarks: Based on test data

Species: Rabbit

Application Route: Skin contact Remarks: Based on test data

#### **Aspiration toxicity**

Not classified based on available information.

## **Components:**

#### Solvent naphtha (petroleum), medium aliph.:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Stoddard solvent:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Experience with human exposure**

#### **Components:**

## Solvent naphtha (petroleum), medium aliph.:

Inhalation : Target Organs: Central nervous system

Symptoms: Dizziness, Headache, Neurological disorders

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

2015/02/04 1209569-00001 Date of first issue: 2015/02/04 1.0

Stoddard solvent:

Inhalation Target Organs: Central nervous system

Symptoms: Dizziness, Headache, Neurological disorders

#### **Further information**

## **Components:**

## Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcvclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Based on the available information on its potential to cause harm to human health, Health Canada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health (http://www.ec.gc.ca/eseees/default.asp?lang=En&n=2481B508-1). Repeated exposure in rats to D4 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:

Solvent naphtha (petroleum), medium aliph.:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 4,700 mg/l

Exposure time: 72 h

Stoddard solvent:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.2

Exposure time: 72 h

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOELR (Daphnia magna (Water flea)): 0.097 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Propan-2-ol:

: LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Toxicity to algae : ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800

ma/

Exposure time: 8 d

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

1,2,4-Trimethylbenzene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 3.6 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 2.356 mg/l

Exposure time: 96 h

**Ecotoxicology Assessment** 

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

Methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000

mg/l

Exposure time: 96 h Method: OPPTS 850.5400

Toxicity to fish (Chronic tox-

icity)

: NOEC (Oryzias latipes (Orange-red killifish)): 15,800 mg/l

Exposure time: 200 h

Toxicity to bacteria : EC50: 20,000 mg/l

Exposure time: 15 h

Oligomers of aminoalkylmethoxysilanes:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 597 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia sp.): 37 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 8.8

mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

NOEC (Pseudokirchneriella subcapitata (green algae)): 3.1

mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chron-

Exposure time: 21 d

ic toxicity)

Remarks: Based on data from similar materials

Octamethylcyclotetrasiloxane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l

NOEC (Daphnia sp.): > 1 mg/l

Exposure time: 96 h

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia sp.): > 0.015 mg/l

Exposure time: 48 h

Remarks: No toxicity at the limit of solubility

Toxicity to algae : EC50: > 0.022 mg/l

Exposure time: 96 h

Remarks: No toxicity at the limit of solubility

NOEC: 0.022 mg/l Exposure time: 96 h

Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic tox-

icity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/l

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC (Daphnia magna (Water flea)): > 0.0079 mg/l

Exposure time: 21 d

Remarks: No toxicity at the limit of solubility

Toxicity to bacteria : IC50: > 10,000 mg/l

Method: ISO 8192

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Persistence and degradability

**Components:** 

Solvent naphtha (petroleum), medium aliph.:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 58.6 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Stoddard solvent:

Biodegradability : Result: Readily biodegradable

Biodegradation: 75 %

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL **GRADE DISPERSION**

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

Exposure time: 28 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

1,2,4-Trimethylbenzene:

: Result: rapidly degradable Biodegradability

Biodegradation: 100 % Exposure time: 1 d

Methanol:

Result: Readily biodegradable Biodegradability

> Biodegradation: 95 % Exposure time: 20 d

Oligomers of aminoalkylmethoxysilanes:

Biodegradability : Result: Not readily biodegradable.

Octamethylcyclotetrasiloxane:

Biodegradability Result: Not readily biodegradable.

Biodegradation: 3.7 % Exposure time: 28 d

Method: OECD Test Guideline 310

Stability in water : Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7

Method: OECD Test Guideline 111

Bioaccumulative potential

Components:

Stoddard solvent:

Partition coefficient: n-: log Pow: > 4

octanol/water Remarks: Expert judgement

Propan-2-ol:

Partition coefficient: n-

: log Pow: 0.05

octanol/water

1,2,4-Trimethylbenzene:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 33 - 275

Methanol:

Bioaccumulation Species: Leuciscus idus (Golden orfe)

Bioconcentration factor (BCF): < 10

Partition coefficient: n-

octanol/water

: log Pow: -0.77

Octamethylcyclotetrasiloxane:

Partition coefficient: n-: log Pow: 6.48 (25.1 °C)

octanol/water

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

#### Mobility in soil

No data available

#### Other adverse effects

#### Components:

## Octamethylcyclotetrasiloxane:

Results of PBT and vPvB

assessment

Remarks: Octamethylcyclotetrasiloxane (D4) meets the current REACh Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living

organisms.

## 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

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

#### 14. TRANSPORT INFORMATION

### **International Regulation**

### **UNRTDG**

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Propan-2-ol, Methanol)

Class : 3
Packing group : II
Labels : 3

IATA-DGR

UN/ID No. : UN 1993

Proper shipping name : Flammable liquid, n.o.s.

(Propan-2-ol, Methanol)

Class : 3 Packing group : II

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

2015/02/04 1209569-00001 Date of first issue: 2015/02/04 1.0

Labels : Flammable Liquids

Packing instruction (cargo : 364

aircraft)

Packing instruction (passen-

ger aircraft)

: 353

**IMDG-Code** 

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Propan-2-ol, Methanol, Stoddard solvent, 1,2,4-

Trimethylbenzene)

Class 3 Packing group Ш Labels 3 EmS Code F-E, S-E

Marine pollutant yes

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

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Propan-2-ol, Methanol)

: 3 Class Packing group : 11 Labels : 3

#### 15. REGULATORY INFORMATION

## **National regulatory information**

Law on Prevention and Control of Environment Pollution by Solid Waste

**Emergency Response Law** 

Provisions on the Administration of Railway Transport of Dangerous Goods Provisions on the Administration of Road Transport of Dangerous Goods

Provisions on the Administration of Waterway Transport of Dangerous Goods

Provisions Concerning the Management of Dangerous Goods at Port

Regulation on the Safety Management of Hazardous Chemicals

Provisions on the Safe Use of Chemicals at Workplace

Rules for Classification and Labelling of Chemicals (GB 30000) Law on the Prevention and Control of Occupational Diseases

Fire Protection Law

Regulations on Labor Protection in Workplaces where Toxic Substances are Used

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

**KECI** : All ingredients listed, exempt or notified.

**REACH** : All ingredients (pre-)registered or exempt.

**TSCA** : All chemical substances in this material are included on or

according to GB/T 16483 and GB/T 17519



## DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

exempted from listing on the TSCA Inventory of Chemical

Substances.

AICS : All ingredients listed or exempt.

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 : All chemical substances in this product comply with the CEPA

1999 and NSNR and are on or exempt from listing on the

Canadian Domestic Substances List (DSL).

NZIoC : All ingredients listed or exempt.

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

### **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 Agen-

cy, http://echa.europa.eu/

Date format : yyyy/mm/dd

## Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

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 ACGIH / STEL : Short-term exposure limit : 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

#### 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 provid-

according to GB/T 16483 and GB/T 17519



# DOW CORNING(R) MDX4-4159 50% MEDICAL GRADE DISPERSION

Version Revision Date: MSDS Number: Date of last issue: -

1.0 2015/02/04 1209569-00001 Date of first issue: 2015/02/04

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

CN / EN