

# QM44 MICROMAX™ DIELECTRIC PASTE

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 04-12-2024

 8.0
 07-31-2025
 300000000870
 Date of first issue: 01-29-2024

#### **SECTION 1. IDENTIFICATION**

Product name : QM44 MICROMAX™ DIELECTRIC PASTE

Product code : 00000000027046497

Manufacturer or supplier's details

Company name of supplier : Celanese Ltd. Irving Texas

Address : 222 West Las Colinas Boulevard Suite 900N

Irving TX 75039

Telephone : '+1 972-443-4000

Emergency telephone : DOMESTIC NORTH AMERICA: 800-424-9300

number INTERNATIONAL, CALL +1 703-527-3887 (collect calls

accepted)

Recommended use of the chemical and restrictions on use

Recommended use : For industrial use only.

Paste for electronic industry

## **SECTION 2. HAZARDS IDENTIFICATION**

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

Not a hazardous substance or mixture.

## Other hazards

None known.

## **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum oxide	1344-28-1	>= 10 - < 30
Terpineol	8000-41-7	>= 5 - < 10
Bis(2-butoxyethyl) ether	112-73-2	>= 5 - < 10

Glass or Ceramic ingredient(s)	30 - 60%
Silicon, Barium	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.



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## **SECTION 4. FIRST AID MEASURES**

If inhaled : If inhaled, remove to fresh air.

If breathing is difficult, give oxygen.

If not breathing, give artificial respiration.

Get medical attention.

In case of skin contact : Wash off with soap and water.

Get medical attention if irritation develops and persists.

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eyes for at least 15 minutes. Get medical

attention.

If swallowed : If swallowed

Rinse mouth with water.

Call a physician or poison control centre immediately. DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Most important symptoms and effects, both acute and

delayed

None known.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Dry sand Dry chemical

Alcohol-resistant foam

Specific hazards during

firefighting

Hazardous decomposition products formed under fire

conditions.

(see also section 10)

Avoid breathing decomposition products.

Further information : Evacuate personnel to safe areas.

Stop spill/release if it can be done with minimal risk.

Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective equipment :

for firefighters

Exposure to decomposition products may be a hazard to

health.

Wear self-contained breathing apparatus for firefighting if

necessary.



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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Wear suitable protective equipment.

Dispose of in accordance with local regulations.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

Methods and materials for containment and cleaning up

Contain spill.

Soak up with inert absorbent material.

Collect and contain contaminated absorbent and dike material

for disposal.

Keep in suitable, closed containers for disposal.

Ventilate the area.

Clean contaminated surface thoroughly.

### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

Avoid formation of dust and aerosols.

Keep away from heat and sources of ignition.

Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.

Use only with adequate ventilation/personal protection.

Keep container closed when not in use.

Take care to avoid waste and spillage when weighing, loading

and mixing the product.

Conditions for safe storage : Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep away from sources of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Keep container closed when not in use.

Do not reuse empty container.

Further information on storage stability

: Stable under normal conditions.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum oxide	1344-28-1	TWA (total dust)	15 mg/m3	OSHA Z-1



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		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminium)	ACGIH
Silicon	7440-21-3	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0

**Engineering measures** 

Local exhaust or a laboratory hood should be used when

handling the materials.

Maintain air concentrations below occupational exposure

standards.

## Personal protective equipment

Respiratory protection : Provide adequate ventilation.

No personal respiratory protective equipment normally

required.

Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with

dust/mist cartridge.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the

manufacturer.

Persons performing maintenance or repairs on exhaust system equipment (e.g. ducts) may need to use respirators

and protective clothing to prevent exposure to any

accumulated residues.

Hand protection

Material : Impervious gloves

Remarks : Gloves must be inspected prior to use. Gloves should be

discarded and replaced if there is any indication of



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degradation or chemical breakthrough. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Lightweight protective clothing

Safety shoes

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with skin, eyes and clothing.

Contaminated work clothing should not be allowed out of the

workplace.

Remove contaminated clothing and protective equipment

before entering eating areas.

Remove and wash contaminated clothing before re-use.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous liquid

Colour : blue

Odour : pine

Flash point : 210 °F / 99 °C

Method: closed cup

Density : 2.21 g/cm³ (68 °F / 20 °C)

Solubility(ies)

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

Viscosity

Viscosity, dynamic : > 100 Pa.s (77 °F / 25 °C)

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

estimated



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#### **SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous

reactions

: Polymerization will not occur.

Stable at normal temperatures and storage conditions.

Conditions to avoid : None reasonably foreseeable.

Incompatible materials : Acids

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

Under fire conditions:

Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

Metal oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

Not classified due to lack of data.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 2,067 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 20.33 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

**Components:** 

Aluminum oxide:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5.09 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Remarks: Information given is based on data obtained from

similar substances.

Silicon:

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

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Terpineol:



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

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

toxicity

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Barium:

Acute oral toxicity : LD50 (Rat): 132 mg/kg

Target Organs: Cardio-vascular system Symptoms: Cardiovascular system effects

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Silicon:

Remarks : No data available

**Terpineol:** 

Species : Rabbit

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Result : Skin irritation

Barium:

Species : animals (unspecified species)

Result : Mild skin irritation

Remarks : Irritant

Serious eye damage/eye irritation

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

Species : Rabbit

Result : No eye irritation



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Assessment : No eye irritation

Silicon:

Species : Rabbit

Remarks : slight irritation

Terpineol:

Species : animals (unspecified species)

Result : Eye irritation
Assessment : Irritating to eyes.

Method : OECD Test Guideline 405

Barium:

Species : Rabbit

Result : Severe eye irritation

Remarks : Irritant

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

Species : Guinea pig

Assessment : Does not cause skin sensitisation. Result : Does not cause skin sensitisation.

Silicon:

Remarks : No data available

Terpineol:

Test Type : Maximisation Test Species : Guinea pig

Assessment : Not a skin sensitizer.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

Barium:

Remarks : No data available

Germ cell mutagenicity

Not classified due to lack of data.

**Components:** 

Aluminum oxide:



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Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects., Did not

cause genetic damage in cultured mammalian cells.

**Terpineol:** 

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Evidence suggests this substance does

not cause genetic damage in animals.

Carcinogenicity

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

Carcinogenicity - Assessment

Not classifiable as a human carcinogen., Overall weight of evidence indicates that the substance is not carcinogenic.

**Terpineol:** 

Carcinogenicity - Assessment Not classifiable as a human carcinogen., Overall weight of evidence indicates that the substance is not carcinogenic.

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

Reproductive toxicity -

Assessment

No toxicity to reproduction, Animal testing showed no reproductive toxicity., Information given is based on data

obtained from similar substances.

Animal testing showed no developmental toxicity., Information given is based on data obtained from similar substances.

**Terpineol:** 

Assessment

Reproductive toxicity -

Animal testing showed effects on reproduction at levels equal

to or above those causing parental toxicity.

STOT - single exposure

Not classified due to lack of data.

Components:

Aluminum oxide:

Assessment : The substance or mixture is not classified as specific target



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organ toxicant, single exposure.

**Terpineol:** 

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Terpineol:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

**Components:** 

Aluminum oxide:

Species : Rat

NOAEL : 141 mg/kg Application Route : Ingestion Exposure time : 28 d

Method : see user defined free text

Remarks : No toxicologically significant effects were found.

Information given is based on data obtained from similar

substances.

Species : Rat
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 90 d

Method : OECD Test Guideline 413

Remarks : No toxicological effects warranting significant target organ

toxicity classification were seen below the recommended

guidance values for classification.

Silicon:

Remarks : No data available

Terpineol:

Species : Rat Application Route : Oral

Remarks : No toxicologically significant effects were found.

Barium:

Species : multiple species



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Application Route : Oral

Remarks : kidney effects

**Aspiration toxicity** 

Not classified due to lack of data.

**Components:** 

Aluminum oxide:

No aspiration toxicity classification

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

#### Components:

Aluminum oxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): Exposure

time: 96 h

Remarks: Aquatic toxicity is unlikely due to low solubility. Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): Exposure time: 48 h

Remarks: Aquatic toxicity is unlikely due to low solubility. Information given is based on data obtained from similar

substances.

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)):

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Aquatic toxicity is unlikely due to low solubility. Information given is based on data obtained from similar

substances.

NOEC (Pseudokirchneriella subcapitata (green algae)):

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Aquatic toxicity is unlikely due to low solubility.

**Ecotoxicology Assessment** 

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

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Silicon:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic : Remarks: No data available



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plants

**Terpineol:** 

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 62 - 80 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 73 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 68

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EbC50 (Pseudokirchneriella subcapitata (green algae)): 17

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Barium:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

# Persistence and degradability

### **Components:**

**Terpineol:** 

Biodegradability : Biodegradation: 80 %

Exposure time: 28 d

Method: OECD Test Guideline 301 Remarks: Readily biodegradable.

## **Bioaccumulative potential**

#### **Components:**

Aluminum oxide:

Bioaccumulation : Remarks: The substance has the potential to bioaccumulate.

Information given is based on data obtained from similar

substances.

Terpineol:

Bioaccumulation : Bioconcentration factor (BCF): 24.13

Remarks: Bioaccumulation is unlikely.



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Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological

information

No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : If recycling is not practicable, dispose of in compliance with

local regulations.

Do not reuse empty container. Never place unused product

down any indoor or out door drain.

Contaminated/not cleaned containers should be

treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

**SECTION 14. TRANSPORT INFORMATION** 

**International Regulations** 

**UNRTDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Glass frits)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Glass frits)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

964

Packing instruction

(passenger aircraft)

: 964

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

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Class : 9 Packing group : III



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Labels : 9 EmS Code : F-A, S-F Marine pollutant : no

## Transport in bulk according to IMO instruments

Not applicable for product as supplied.

## **National Regulations**

#### **49 CFR**

Not regulated as a dangerous good

#### Special precautions for user

Remarks : Marine Pollutants assigned UN number 3077 and 3082 in

single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## **SECTION 15. REGULATORY INFORMATION**

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Aluminum oxide 1344-28-1

Barium 7440-39-3

C.I. Pigment Blue 1345-16-0

28

Tricobalt 1308-06-1

tetraoxide (< 0.1% NiO)

## California Prop. 65

WARNING: This product can expose you to chemicals including 2,2'-Iminodiethanol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### **TSCA list**

In compliance with TSCA-active Inventory requirements for commercial purposes.



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The following substance(s) is/are subject to a Significant New Use Rule:

Bis(2-butoxyethyl) ether 112-73-2 See 40 CFR § 721.10229; Final

Rule

See 40 CFR § 721.10229; Proposed

Rule

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Bis(2-butoxyethyl) ether 112-73-2 Zinc 7440-66-6

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

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

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

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

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / 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 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-



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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.

US / EN

