Trade name: MXDA Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

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

#### 1.1 Product identifier

#### Trade name

### **MXDA**

Substance name m-phenylenebis(methylamine)

01-2119480150-50 REACH registration no.

Identification numbers

1477-55-0 CAS no. EC no. 216-032-5

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

#### Relevant identified uses of the substance or mixture

Industrial production of epoxy hardeners

industrial polymer production

Use of adhesives, coatings and composites in the construction industry

Use as intermediate

#### Uses advised against

Consumer use

#### Reference to relevant exposure scenarios

For an overview of the exact titles of the relevant exposure scenarios please refer to section 16 of this SDS.

#### 1.3 Details of the supplier of the safety data sheet

#### Address

Mitsubishi Gas Chemical Europe GmbH

Immermannstraße 13 40210 Düsseldorf

Telephone no. +49 (0) 211-363 080 +49 (0) 211-354 457 Fax no.

#### **Advice on Safety Data Sheet**

sdb\_info@umco.de

#### **Emergency telephone number**

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Chronic 3; H412 Skin Corr. 1B; H314 Skin Sens. 1B; H317

#### Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) nº 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

#### 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

#### **Product identifier**

1477-55-0 (m-phenylenebis(methylamine))

#### Hazard pictograms





GHS05

Signal word Danger

Hazard statement(s)

Trade name: MXDA

Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

H302+H332 Harmful if swallowed or if inhaled

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH071 Corrosive to the respiratory tract.

Precautionary statement(s)

P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

shower

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to an approved incinerator.

#### 2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### Chemical characterization

Substance name m-phenylenebis(methylamine)

Identification numbers

CAS no. 1477-55-0 EC no. 216-032-5

#### 3.2 Mixtures

Not applicable. The product is not a mixture.

#### 3.3 Other information

Mono-constituent-substance

Chemical purity:

>= 99.92 to <= 99.99 % (w/w)

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General information**

Seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

#### After skin contact

Wash off immediately with soap and water. Seek medical attention.

#### After eye contac

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Call a doctor immediately and show label or packaging. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Trade name: MXDA

Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

#### Suitable extinguishing media

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

#### Unsuitable extinguishing media

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Nitrogen oxides (NOx); Corrosive gases/vapours

#### 5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When picked up, treat material as prescribed under heading "Disposal considerations".

#### 6.4 Reference to other sections

No data available.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available. Do not inhale vapours.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools. Take precautionary measures against static charges.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

#### Incompatible products

Do not store together with: Acids; oxidizing agents; Reducing agents; Do not store together with animal feedstocks. Do not store together with foodstuffs.

#### 7.3 Specific end use(s)

No data available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **DNEL, DMEL and PNEC values**

#### **DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	

Trade name: MXDA

Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

1				1477-55-0 216-032-5	
	dermal	Long term (chronic)	systemic	0.33	mg/kg
	inhalative	Long term (chronic)	systemic	1.2	mg/m³
	inhalative	Long term (chronic)	local	0.2	mg/m³

#### **PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	m-phenylenebis(methylamine)		1477-55-0	
			216-032-5	
	water	fresh water	0.094	mg/L
	water	marine water	0.0094	mg/L
	water	Aqua intermittent	0.152	mg/L
	water	fresh water sediment	0.43	mg/kg
	with reference to: dry mass			
	water	marine water sediment	0.043	mg/kg
	with reference to: dry mass			
	soil	=	0.045	mg/kg
	with reference to: dry mass			
	sewage treatment plant	-	10	mg/L

#### Other information

DNEL are not available

#### 8.2 Exposure controls

### Appropriate engineering controls

The substance is corrosive and a strict risk management is to be applied to prevent exposure of industrial or professional workers. Closed systems are required. Products containing the substance have to be dispensed via closed manual, battery operated or pneumatic devices.

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. In case of accidental release, wear suitable respiratiory protection equipment (isolating self-contained device).

Respirator K

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Appropriate Material	butyl rubber		
Material thickness	•	0.5	mm
Breakthrough time	>=	480	min
Appropriate Material	Fluoro elastomer (FKM)		
Material thickness		0.4	mm
Breakthrough time	>=	480	min
Appropriate Material	neoprene		
Material thickness		0.5	mm
Breakthrough time	>=	480	min
Inappropriate material	nitrile rubber		
Inappropriate material	leather		
Inappropriate material	textile		

#### Other

Normal chemical work clothing, two components epoxy resins containing the substance have to be mixed carefully before use to ensure that the substance reacts and is not available after curing of the resin.

#### **Environmental exposure controls**

No data available.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
colourless	

Od	ΩIJ	

Trade name: MXDA

Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

amine-like			
Odour threshold  No data available			
pH value	1 ( ( ))	11.40	
Comments	untreated liquid: app	or. pH 13	
Boiling point / boiling range			
Value		272	°C
Reference pressure		101.3	kPa
Method	OECD 103		
Source	CSR		
Melting point / melting range			
Value		14	°C
Method	OECD 102		
Source	CSR		
Decomposition point / decomposition range			
No data available			
Flash point			
Value		142	°C
Method	92/69/EEC, A.9	·	
Source	CSR		
Auto-ignition temperature			
Value		400	°C
Method	EEC A.15		-
Source	CSR		
Ovidicing properties	•		
Oxidising properties not oxidizing			
Explosive properties			
The product does not have explosive properties.			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
Lower naminability or explosive inflits			
No data available			
No data available			
No data available  Upper flammability or explosive limits			
No data available  Upper flammability or explosive limits  No data available			
No data available  Upper flammability or explosive limits  No data available  Vapour pressure			
No data available  Upper flammability or explosive limits No data available  Vapour pressure Value		0.69	Pa
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature		0.69 25	Pa °C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method	OECD 104		
No data available  Upper flammability or explosive limits  No data available  Vapour pressure  Value  Reference temperature  Method  Source	OECD 104 CSR		
No data available  Upper flammability or explosive limits  No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available			
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density		25	°C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density Value		1050	°C kg/m³
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Relative density Value Reference temperature	CSR	25	°C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Relative density Value Reference temperature Reference temperature Method	OECD 109	1050	°C kg/m³
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Relative density Value Reference temperature Method Source	CSR	1050	°C kg/m³
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Relative density Value Reference temperature Method Source  Solubility in water	OECD 109	1050 20	kg/m³ °C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density  Value Reference temperature Method Source  Solubility in water Value	OECD 109	1050 20	kg/m³ °C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density  Value Reference temperature Method Source  Solubility in water  Value Reference temperature	OECD 109 CSR	1050 20	°C kg/m³
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density  Value Reference temperature Method Source  Solubility in water Value Reference temperature Method Reference temperature	OECD 109 CSR	1050 20	kg/m³ °C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density  Value Reference temperature Method Source  Solubility in water  Value Reference temperature Method Source  Solubility in water  Value Reference temperature Method Source	OECD 109 CSR	1050 20	kg/m³ °C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Relative density Value Reference temperature Method Source  Solubility in water  Value Reference temperature Method Source Comments	OECD 109 CSR	1050 20	kg/m³ °C
No data available  Upper flammability or explosive limits No data available  Vapour pressure  Value Reference temperature Method Source  Vapour density No data available  Evaporation rate No data available  Relative density No data available  Density  Value Reference temperature Method Source  Solubility in water  Value Reference temperature Method Source	OECD 109 CSR	1050 20	kg/m³ °C

Trade name: MXDA

Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

Part	ition coefficient: n-octanol/water				
No	Substance name	CAS	no.	EC no.	
1	m-phenylenebis(methylamine)	1477	7-55-0	216-032-5	
log F	Pow		0.18		
Refe	rence temperature		25	°C	
Meth		OECD 107			
Sour	ce	CSR			

Viscosity		- minim		
Value		6.78	mm²/s	
Reference temperature		20	°C	
Type	kinematic			
Type Method	OECD 114			
Source	CSR			

#### 9.2 Other information

Other information	
No data available.	

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Heat

#### 10.5 Incompatible materials

Acids; Oxidizing agents; Reducing agents

## 10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide; Nitrous oxides (NOx); Toxic gases/vapours; Corrosive gases/vapours

### **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

No	Substance name		CAS no.		EC no.
1	m-phenylenebis(methylamine)		1477-55-0		216-032-5
_D50				930	mg/kg bodyweight
Spec	cies	rat			
Meth		OECD 401			
Sour	ce	CSR			

No	Substance name		CAS no.		EC no.
1	m-phenylenebis(methylamine)		1477-55-0		216-032-5
LD50				3100	mg/kg bodyweight
Spec	cies	rat			
Meth	nod	OECD 402			
Sour	ce	CSR			

Acu	te inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	m-phenylenebis(methylamine)		1477-55-0		216-032-5	- 1
LC5	0			1.34	mg/l	
Dura	ation of exposure			4	h	
Stat	e of aggregation	Dust/mist				
Spe	cies	rat				
Meth	hod	OECD 403				
Sou	rce	CSR				

Skin	corrosion/irritation		- Davidson		
No	Substance name		CAS no.	EC no.	
1	m-phenylenebis(methylamine)		1477-55-0	216-032-5	
Spec	cies	rat			

Trade name: MXDA
Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

Method	EU B.4
Source	CSR
Evaluation	corrosive

# Serious eye damage/irritation No data available

Res	piratory or skin sensitisation				
No	Substance name	C	AS no.	EC no.	
1	m-phenylenebis(methylamine)	1	477-55-0	216-032-5	
Rou	te of exposure	Skin			
Spe	cies	mouse			
Meth	nod	OECD 429			
Soul	rce	CSR			
Eval	uation	sensitizing			

Geri	m cell mutagenicity		
No	Substance name	CAS no.	EC no.
1	m-phenylenebis(methylamine)	1477-55-0	216-032-5
Soul	rce	CSR	
Eval	uation/classification	Based on available data, the classifica	ation criteria are not met.

Rep	roduction toxicity		
No	Substance name	CAS no.	EC no.
1	m-phenylenebis(methylamine)	1477-55-0	216-032-5
Soul	rce	CSR	
Eval	uation/classification	Based on available data, the classification	ation criteria are not met.

# Carcinogenicity No data available

# STOT - single exposure No data available

	T - repeated exposure			
No	Substance name		CAS no.	EC no.
1	m-phenylenebis(methylamine)		1477-55-0	216-032-5
Rout	te of exposure	inhalational		
NOA	/EC		5	mg/m³
Spec	cies	rat		7
Targ	jet organ	lungs		
Meth	nod	OECD 413		
Sour	rce	CSR		

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Strong irritating effect on the respiratory tract and the lungs.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxi	city to fish (acute)			- Alexander Complete	
No	Substance name	CAS no.		EC no.	
1	m-phenylenebis(methylamine)	1477-55-0		216-032-5	
LC50	0		87.6	mg/l	
Dura	ation of exposure		96	h	
Spec		Oryzias latipes			
Meth	nod	OECD 203			
Sour	rce	CSR			

# Toxicity to fish (chronic) No data available

Toxi	city to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	m-phenylenebis(methylamine)	1477-55-0		216-032-5	P.
EC5	0		15.2	mg/l	147
Dura	ation of exposure		48	h	
Spec	cies	Daphnia magna			
Meth	nod	OECD 202			
Sour	rce	CSR			

Trade name: MXDA
Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

No	Substance name	CAS no.		EC no.
1	m-phenylenebis(methylamine)	1477-55-0		216-032-5
NOE	C		4.7	mg/l
Dura	tion of exposure		21	day(s)
Spe	pies .	Daphnia magna		, ,
Meth	nod	OECD 211		
Soul	ce	CSR		

No	Substance name	CAS no.		EC no.
1	m-phenylenebis(methylamine)	1477-55-0		216-032-5
EC5	O .		20.3	mg/l
Dura	ition of exposure		72	h
Spec	pies .	Pseudokirchneriella subcapita	ta	
Meth	nod	OECD 201		
Soul	ce	CSR		

No	Substance name	CAS no.		EC no.	
1	m-phenylenebis(methylamine)	1477-55-0		216-032-5	
NOE	C		10.5	mg/l	
Duration of exposure			72	h h	
Species		Pseudokirchneriella subcapitat	а		
Method		OECD 201			
Source		CSR			

Bacteria toxicity						
No	Substance name	CAS no.		EC no.		
1	m-phenylenebis(methylamine)	1477-55-	0	216-032-5		
EC5	0	>	1000	mg/l		
Duration of exposure			30	min		
Species		activated sludge				
Method		OECD 209				
Source		CSR				

12.2 Persistence and degradability

Biodegradability					
No	Substance name	CAS no.		EC no.	
1	m-phenylenebis(methylamine)	1477-55-0	100	216-032-5	
Valu	9		49	%	
Dura	tion		28	day(s)	
Method		OECD 301 B		, ,	
Source		CSR			
Evaluation		not readily biodegradable			

12.3 Bioaccumulative potential

Part	ition coefficient: n-octanol/water		1.3.2.2		
No	Substance name		CAS no.		
1	m-phenylenebis(methylamine)		1477-55-0	216-032-5	
log Pow Reference temperature			0.18 25	3 °C	
Method Source		OECD 107 CSR			

## 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment				
PBT assessment	The product is not considered to be a PBT.			
vPvB assessment	The product is not considered to be a vPvB.			

#### 12.6 Other adverse effects

No data available.

#### 12.7 Other information

_	Other information	
	Other information	
	Do not discharge product unmonitored into the environment.	

## **SECTION 13: Disposal considerations**

Trade name: MXDA Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

#### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Expulsion resins should be carefully collected to cure the resin completely befor disposal.

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Packaging with residues of the substance have to be collected and incinerated at an approved facility.

### **SECTION 14: Transport information**

#### Transport ADR/RID/ADN

Class **C7** Classification code Packing group П Hazard identification no. 80 UN number UN2735

Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S.

Tunnel restriction code Lahel 8

#### Transport IMDG

8 Class Packing group **UN** number UN2735

AMINES, LIQUID, CORROSIVE, N.O.S. Proper shipping name

EmS F-A, S-B

8 Label

#### 14.3 Transport ICAO-TI / IATA

Class Packing group П UN number UN2735

Proper shipping name Amines, liquid, corrosive, n.o.s.

#### Other information

No data available.

#### **Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### Special precautions for user

No data available.

#### Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

### **SECTION 15: Regulatory information**

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

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation

#### REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list")

## Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. No 3

#### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This substance is not subject to Part I or 2 of Annex I

#### Chemical safety assessment

A chemical safety assessment has been carried out for this substance

### **SECTION 16: Other information**

Trade name: MXDA
Product no.: MGCE-006

Current version: 3.0.0, issued: 02.09.2019 Replaced version: 2.0.0, issued: 05.12.2016 Region: GB

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed. H332 Harmful if inhaled.

#### List of existing exposition scenarios

ES001 Production of epoxy resins - industrial use

ES002 Use as monomer - industrial use

ES003 Use of adhesives, coatings and composites - professional use

ES004 Use as intermediate - industrial use

ES005 Use in coatings, adhesives, sealants, and elastomers - industrial use.
ES006 Formulation and (re)packing of substance and mixtures - industrial use

#### Department issuing safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: 2E @umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

#### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 659787