

* BÜFA®-Accelerator DMA 10

Date revised: 26.01.2021

74200600055

Version: 2 / GB

Master No. M-402

Print date: 28.04.2020

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

1.1. Product identifier

Trade name

BÜFA®-Accelerator DMA 10

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

Use of the substance/mixture

Accelerator

1.3. Details of the supplier of the safety data sheet

Address

BÜFA Composite Systems
GmbH & Co. KG Hohe Looe 2-8
Hohe Looe 2-8
26180 Rastede

Telephone no. +49 4402 975-0

Fax no. +49 4402 975-400

Information provided Department product safety / +49 4402 975-415

by / telephone

E-Mail produktsicherheit-compositesystems@buefa.de

1.4. Emergency telephone number

Euroresins UK LTD.: +44 151 34 88 800

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226

Acute Tox. 3 H331

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Carc. 2 H351

STOT SE 3 H335

STOT RE 1 H372

Asp. Tox. 1 H304

Aquatic Chronic 3 H412

Repr. 2 H361d

Organs: Ear; Route of exposure: inhalative

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms****Signal word**

Danger

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Hazard statements

H226	Flammable liquid and vapour.
H331	Toxic if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure. Ear; Route of exposure: inhalative
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.
H361d	Suspected of damaging the unborn child.

Precautionary statements

P210.9	Keep away from sparks, open flames and other ignition sources. No smoking.
P260.8	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains N,N-Dimethylaniline;Styrene

2.3. Other hazards

The product does not contain PBT/vPvB-substances.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****Styrene**

CAS No.	100-42-5				
EINECS no.	202-851-5				
Registration no.	01-2119457861-32-XXXX				
Concentration	>=	59			%
Flam. Liq. 3	H226				
Skin Irrit. 2	H315				
Acute Tox. 4	H332				
Eye Irrit. 2	H319				
STOT SE 3	H335				
STOT RE 1	H372			Organs: Ear; Route of exposure: inhalative	
Asp. Tox. 1	H304				
Repr. 2	H361d				
Aquatic Chronic 3	H412				

N,N-Dimethylaniline

CAS No.	121-69-7				
EINECS no.	204-493-5				
Registration no.	01-2119950342-44-XXXX				
Concentration	>=	10	<	14	%
Carc. 2	H351				
Acute Tox. 3	H331				
Acute Tox. 3	H311				
Acute Tox. 3	H301				

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Aquatic Chronic 2 H411

Complete text of hazard statements in chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. Remove soiled or soaked clothing immediately, do not allow to dry. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately. Remove contact lenses

After ingestion

Rinse mouth thoroughly with water. Summon a doctor immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If individual is drowsy or unconscious place in recovery position (on left side, with head down).

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

The following symptoms may occur: Headache, Dizziness, Nausea, Dizziness

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

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, Dry powder, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Carbon monoxide (CO); Nitrogen oxides (NO_x); dense black smoke

5.3. Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a

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wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Observe the usual precautions for handling chemicals.

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

N,N-Dimethylaniline

List	EH40			
Type	WEL			
Value	25	mg/m ³	5	ppm(V)
Short term exposure limit	50	mg/m ³	10	ppm(V)
Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status: 2011				

Styrene

List	EH40			
Type	WEL			
Value	430	mg/m ³	100	ppm(V)
Short term exposure limit	1080	mg/m ³	250	ppm(V)
Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2011				

Derived No/Minimal Effect Levels (DNEL/DMEL)

Styrene

Reference substance	Styrene			
DNEL				
Conditions	Worker	Acute	inhalative	Systemic effects
Concentration	289	mg/m ³		
DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	85	mg/m ³		
DNEL				
Conditions	Worker	Acute	inhalative	Local effects
Concentration	306	mg/m ³		

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DNEL				
Conditions	Worker	Long term	dermal	Systemic effects
Concentration	406	mg/kg/d		

8.2. Exposure controls

Appropriate engineering controls

Use only in well ventilated areas.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

General protective and hygiene measures

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A; Respiratory protection must comply with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149.

Hand protection

Chemical resistant gloves

Appropriate Material	Butyl rubber		
Material thickness	0,7	mm	
Breakthrough time	= 30	min	

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid		
Colour	yellow		
Odour	pungent		
Odour threshold			
Remarks	No data available		
pH value			
Remarks	No data available		
Melting point			
Remarks	No data available		
Freezing point			
Remarks	No data available		
Boiling point			
Remarks	No data available		
Flash point			
Value	32	°C	
Evaporation rate			
Remarks	No data available		
Efflux time			
Value	5	s	
Method	DIN EN ISO 2431 - 6 mm		

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Flammability

No data available

Explosion limits

Remarks No data available

Vapour pressure

Remarks No data available

Vapour density

Remarks No data available

Density

Value	0,91		g/cm ³
Temperature	20	°C	

Solubility in water

Remarks No data available

Solubility in other solvents

Remarks No data available

Octanol/water partition coefficient (log Pow)

Remarks No data available

Ignition temperature

Value	490	°C
Remarks	Information refers to the main component. Styrol	

Auto-ignition temperature

Remarks No data available

Thermal decomposition

Remarks No data available

Explosive properties

evaluation no data

Oxidising properties

Remarks No data available

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Reactions with acids and strong oxidising agents. Reactions with peroxides and other radical components.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	9.510	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute dermal toxicity

ATE	> 10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute inhalational toxicity

ATE	9,12	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	1,25	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
The classification criteria are met.		

Skin corrosion/irritation

evaluation	irritant
The classification criteria are met.	

Serious eye damage/irritation

evaluation	irritant
The classification criteria are met.	

Sensitization

Based on available data, the classification criteria are not met.

Sensitization (Components)

Styrene

evaluation	non-sensitizing
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Mutagenicity

Based on available data, the classification criteria are not met.

Mutagenicity

N,N-Dimethylaniline

Route of exposure	intraperitoneal	
Species	rat	
Dose	485	mg/kg
evaluation	DNA Damage	

Carcinogenicity

evaluation	Suspected of causing cancer.
The classification criteria are met.	

Reproductive toxicity

evaluation	Suspected of damaging the unborn child.
The classification criteria are met.	

Specific Target Organ Toxicity (STOT)

Single exposure

The classification criteria are met.	
evaluation	May cause respiratory irritation.

Repeated exposure

The classification criteria are met.

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evaluation Causes damage to organs through prolonged or repeated exposure

Aspiration hazard

The classification criteria are met.
Harmful: may cause lung damage if swallowed.

Other information

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****Styrene**

LC/EC/IC50	>	1,0	to	10	mg/l
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N,N-Dimethylaniline

Species	Fathead minnow (Pimephales promelas)				
LC50		65,6			mg/l
Duration of exposure		96	h		

Daphnia toxicity**Styrene**

Species	Daphnia magna				
LC/EC/IC50	>	1,0	to	10	mg/l

N,N-Dimethylaniline

Species	Daphnia magna				
EC50		5			mg/l
Duration of exposure		48	h		

Algae toxicity**Styrene**

LC/EC/IC50	>	1,0	to	10	mg/l
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Bacteria toxicity

No toxicological data are available.

12.2. Persistence and degradability

For this subsection there is no ecotoxicological data available on the product as such.

Biodegradability**Styrene**

evaluation Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks No data available

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment

The product does not contain PBT/vPvB-substances.

12.6. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 07 02 04* other organic solvents, washing liquids and mother liquors
The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN number 1992

14.2. UN proper shipping name

FLAMMABLE LIQUID, TOXIC, N.O.S., (N,N-Dimethylaniline, Styrene)

14.3. Transport hazard class(es)

Class 3(6.1)

14.4. Packing group

Packing group III
Tunnel restriction code D/E

Marine transport IMDG/GGVSee

14.1. UN number

UN number 1992

14.2. UN proper shipping name

FLAMMABLE LIQUID, TOXIC, N.O.S. (N,N-Dimethylaniline, Styrene)

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 6.1

14.4. Packing group

Packing group III
EmS F-E, S-D

Information for all modes of transport

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not applicable

SECTION 15: Regulatory information

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

VOC

VOC (EU) 10 %

Major-accident categories acc. 2012/18/EU

Category H2 ACUTE TOXIC
Category P5c FLAMMABLE LIQUID

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

No information available

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SECTION 16: Other information

Hazard statements listed in Chapter 3

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations

CAS: Chemical Abstracts Service

EAK: Europäischer Abfallkatalog

EINECS: European Inventory of Existing Commercial Chemical Substances

vPvB: Very persistent and very bioaccumulative

vPvB: Very persistent and very bioaccumulative

VOC: Volatile Organic Compound

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.