Trade name: AirPlus ZX

Current version : 3.0.1, issued: 04.09.2019

Region: GB

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

1.1 Product identifier

Trade name

AirPlus ZX

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

Relevant identified uses of the substance or mixture

Insulating gas in gas-insulated electrical switchgear (GIS) Arc quenching medium in gas switches (circuit breaker and load break switches) Use in gas-insulated lines (GIL) or gas-insulated transformers (GIT)

Uses advised against No data available.

1.3 Details of the supplier of the safety data sheet

Address ABB AG Oberhausener Straße 33 40472 Ratingen Deutschland Telephone no. +49 (0) 2102 12-0 Fax no. +49 (0) 2102 12-1777 e-mail de-info.sdb@abb.com

Advice on Safety Data Sheet sdb_info@umco.de

1.4 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 information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements Not relevant

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

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	nitrogen			

ABB

Current version : 3.0.1, issued: 04.09.2019

Replaced version: 3.0.0, issued: 22.08.2019

Region: GB

	7727-37-9 231-783-9 - -	Press. Gas; H280	>=	50.00 - <	70.00	Vol%
2	oxygen					
	7782-44-7 231-956-9 008-001-00-8	Ox. Gas 1; H270 Press. Gas	>=	10.00 - <	25.00	Vol%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	U	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

	Additional ingredien	ts				
No	Substance name		Additi	onal informatio	n	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration		%
	REACH no					
1	1,1,1,3,4,4,4-heptaf	uoro-3-(trifluoromethyl)butan-2-one				
	756-12-7	-	>=	10.00 - <	25.00	Vol%
	690-995-3					
	-					
	01-2120052367-56					

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove affected person from danger area, lay him down. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of persisting adverse effects consult a physician.

After skin contact

Wash off with soap and water.

After eye contact

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

After ingestion

Rinse mouth thoroughly with water.

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

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media Not relevant

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Hydrogen fluoride (HF)

Trade name: AirPlus ZX

Current version : 3.0.1, issued: 04.09.2019

Replaced version: 3.0.0, issued: 22.08.2019

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

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. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

No special measures necessary.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Room ventilation via exhaust system.

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Only qualified and trained persons are authorised to handle. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Wash hands before breaks and after work. Do not inhale gases. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages.

Advice on protection against fire and explosion Pay attention to general rules of internal fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions No special measures necessary.

Requirements for storage rooms and vessels

No special measures required. Incompatible products

None known

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No parameters available for monitoring.

Other information

Chemical name: 1,1,1,3,4,4,4-Heptafluoro-3-(trifluoromethyl)butan-2-on

CAS No.: 756-12-7

Maximum Allowable Concentration (MAC) 225ppm (8h)

Source: ECHA



Current version : 3.0.1, issued: 04.09.2019

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Replaced version: 3.0.0, issued: 22.08.2019

8.2 Exposure controls

Appropriate engineering controls No data available.

Personal protective equipment

Respiratory protection No special measures required.

Eye / face protection No special measures required.

Hand protection No special measures required.

Environmental exposure controls No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour				
gas type				
Odour				
No data available				
Odour threshold				
No data available				
pH value				
Not relevant				
Boiling point / boiling range		20.0	°C	
Reference substance	CAS 756-12-7	26.9		
Source	supplier			
	1			
Melting point / melting range		00	°C	
Value Reference substance	< CAS 756-12-7	-80	٥°	
Source	supplier			
Decomposition point / decomposition range				
Not applicable				
Source	supplier			
Flash point				
Source	supplier			
Auto-ignition temperature				
Source	supplier			
Comments	Product is not selfi	gniting.		
Oxidising properties				
Not applicable				
Explosive properties				
Product does not present an explosion hazard.				
Flammability (solid, gas)				
not flammable	-			
Source	supplier			
Lower flammability or explosive limits		_		
Not applicable				
Upper flammability or explosive limits				
opper naminability of explosive limits				



Not applicable

Current version : 3.0.1, issued: 04.09.2019

Vapour pressure					
Value		94.3	kPa		
Reference temperature		25	°C		
Reference substance	CAS 756-12-7				
Source	supplier				
Vapour density					
Value		9.2			
Reference substance	CAS 756-12-7				
Source	supplier				
Evaporation rate					
Value	>	50			
Reference substance	CAS 756-12-7				
Source	supplier				
Relative density					
Value		1.561			
Reference substance	CAS 756-12-7				
Source	supplier				
Density					
Value		1.561	g/ml		
Reference temperature		20	õ		
Reference substance	CAS 756-12-7				
Source	supplier				
Solubility in water					
Not applicable					
••					
Solubility(ies) Not applicable					
Partition coefficient: n-octanol/water		10			
No Substance name		AS no. 6-12-7		EC no. 690-995-3	
1 1,1,1,3,4,4,4-heptafluoro-3-(trifluoro one	omethyl)butan-2- 73	00-12-7		090-995-3	
log Pow			1.82		
with reference to	CAS 756-12-7				
Method	QSAR				
Source	ECHA				
Viscosity					
Value		0.41	mm²/s		
Reference temperature		0	°C		
Туре	kinematic				
Reference substance	CAS 756-12-7				
Source	supplier				
2 Other information					
Other information					
No data available					

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No dangerous reactions known.





Replaced version: 3.0.0, issued: 22.08.2019

Region: GB

Current version : 3.0.1, issued: 04.09.2019

10.4 Conditions to avoid None known

- **10.5** Incompatible materials None known.
- **10.6 Hazardous decomposition products** No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	te oral toxicity				
No	Substance name		CAS no.		EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	yl)butan-2-	756-12-7		690-995-3
	one				
LD5		>		2000	mg/kg bodyweight
Spe		rat			
Meth		OECD 425			
Sou	Ce	ECHA			
Acu	te dermal toxicity				
No	Substance name		CAS no.		EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	yl)butan-2-	756-12-7		690-995-3
	one				
LD5	0	>		2000	mg/kg bodyweight
Spe		rat			
Meth		OECD 402			
Sou	rce	ECHA			
Acu	te inhalational toxicity				
	Substance name		CAS no.		EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	vl)butan-2-	756-12-7		690-995-3
	one				
LC5	0	148		- 213	mg/l
	ation of exposure			4	h
	e of aggregation	Vapour			
Spe		rat			
Meth		OECD 403			
Sou	Ce	ECHA			
Skir	corrosion/irritation				
No	Substance name		CAS no.		EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	yl)butan-2-	756-12-7		690-995-3
	one	1			
Meth		OECD 404			
Sou		ECHA			
Eval	uation	non-irritant			
Seri	ous eye damage/irritation				
	Substance name		CAS no.		EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	yl)butan-2-	756-12-7		690-995-3
	one				
Meth		OECD 405			
Sou		ECHA			
Eval	uation	non-irritant			
Res	piratory or skin sensitisation				
No	Substance name		CAS no.		EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	vl)butan-2-	756-12-7		690-995-3
	one	, ,			
Rou	te of exposure	Skin			
Spe		mouse			
• •		•			

rent version : 3.0.1, issued: 04.09.2019	Replaced	d version: 3.0.0,	, issued: 22.08	.2019	Region
Method	OECD 429				
Source	ECHA				
Evaluation	non-sensitizi	ina			
Germ cell mutagenicity No data available					
Reproduction toxicity					
No data available					
Carcinogenicity					
No data available					
STOT - single exposure					
No data available					
STOT - repeated exposure					
No Substance name		CAS no.		EC no.	
1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one	nethyl)butan-2-	756-12-7		690-995-3	
Route of exposure	inhalational		0000		
NOAEC	appr.		3000 6	ppm h	
Duration of exposure Species	rats (male/fe	male)	U	n	
Method	OECD 412	indic)			
Source	ECHA				
Aspiration hazard					
ASUITATION NAZATU					
No data available					
No data available					
No data available ECTION 12: Ecological information .1 Toxicity					
No data available ECTION 12: Ecological information					
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available					
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute)					
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available					
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute)		CAS no.		FC no.	
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom)	nethyl)butan-2-	CAS no. 756-12-7		EC no. 690-995-3	
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one	nethyl)butan-2-		20	690-995-3	
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50	nethyl)butan-2-		39 48		
No data available ECTION 12: Ecological information Ino	Daphnia ma	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information I Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method	Daphnia ma OECD 202	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information Ino	Daphnia ma	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic)	Daphnia ma OECD 202	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source	Daphnia ma OECD 202	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information .1 Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluoron one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic) No data available	Daphnia ma OECD 202	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC5∪ Duration of exposure Species Method Source Method Toxicity to Daphnia (chronic) No data available Toxicity to algae (acute) No data available	Daphnia ma OECD 202	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC5∪ Duration of exposure Species Method Source Method Toxicity to Daphnia (chronic) No data available Method Toxicity to algae (acute) No data available Toxicity to algae (acute) No data available	Daphnia ma OECD 202	756-12-7 gna		690-995-3 mg/l h	
No data available ECTION 12: Ecological information All the colspan="2">Information All the colspan="2">Information All the colspan="2">Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluoron one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic) No data available Toxicity to algae (acute) No data available Toxicity to algae (acute) No data available Substance name Toxicity to algae (chronic) No Substance name I 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluoron	Daphnia ma OECD 202 ECHA	756-12-7		690-995-3 mg/l	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Japhnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source Method Toxicity to Daphnia (chronic) No data available Method Toxicity to algae (acute) No data available Method Toxicity to algae (acute) No data available Method Toxicity to algae (acute) No Substance name 1 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one 0	Daphnia ma OECD 202 ECHA	756-12-7 gna CAS no.	48	690-995-3 mg/l h EC no. 690-995-3	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic) No data available Toxicity to algae (acute) No data available Toxicity to algae (acute) No data available Toxicity to algae (chronic) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one	Daphnia ma OECD 202 ECHA	756-12-7 gna CAS no.	48 	690-995-3 mg/l h EC no. 690-995-3 mg/l	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic) No data available Toxicity to algae (acute) No data available Toxicity to algae (acute) No data available Toxicity to algae (chronic) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure	Daphnia ma OECD 202 ECHA	756-12-7 gna CAS no. 756-12-7	48 	690-995-3 mg/l h EC no. 690-995-3	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic) No data available Toxicity to algae (acute) No data available Toxicity to algae (acute) No data available Toxicity to algae (chronic) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Duration of exposure	Daphnia ma OECD 202 ECHA	756-12-7 gna CAS no.	48 	690-995-3 mg/l h EC no. 690-995-3 mg/l	
No data available ECTION 12: Ecological information All Toxicity Toxicity to fish (acute) No data available Toxicity to fish (chronic) No data available Toxicity to fish (chronic) No data available Toxicity to Daphnia (acute) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure Species Method Source Toxicity to Daphnia (chronic) No data available Toxicity to algae (acute) No data available Toxicity to algae (acute) No data available Toxicity to algae (chronic) No Substance name 1 1,1,1,3,4,4,4-heptafluoro-3-(trifluorom one EC50 Duration of exposure	Daphnia ma OECD 202 ECHA	756-12-7 gna CAS no. 756-12-7	48 	690-995-3 mg/l h EC no. 690-995-3 mg/l	



Trade name: AirPlus ZX

Current version : 3.0.1, issued: 04.09.2019

Replaced version: 3.0.0, issued: 22.08.2019

Region: GB

No data available

12.2 Persistence and degradability

Biod	legradability					
No	Substance name		CAS no.		EC no.	
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluorometh	yl)butan-2-	756-12-7		690-995-3	
	one					
Туре	9	aerobic biode	gradation			
Valu	e	appr.		0	%	
Dura	ation			28	day(s)	
Meth	nod	OECD 301 D				
Sou	rce	ECHA				
Eval	uation	not readily bi	odegradable			

12.3 Bioaccumulative potential

Part	ition coefficient: n-octanol/water		
No	Substance name	CAS no.	EC no.
1	1,1,1,3,4,4,4-heptafluoro-3-(trifluoromethyl)butan-2- 756-12-7 690-995-3		690-995-3
	one		
log F	Pow	1.8	32
with	reference to	CAS 756-12-7	
Meth	hod	QSAR	
Sou	rce	ECHA	

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

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

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information No data available.

14.5 Environmental hazards



Trade name: AirPlus ZX

Current version : 3.0.1, issued: 04.09.2019

Region: GB

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

- 14.6 Special precautions for user No data available.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not relevant

SECTION 15: Regulatory information

15.1 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)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

Replaced version: 3.0.0. issued: 22.08.2019

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

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

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

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the following substance/s in this mixture: CAS no. 756-12-7 EC no. 690-995-3

SECTION 16: Other information

Sources of key data used to compile the data sheet:

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.

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

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

H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

U

When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

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: umco@umco.de

Trade name: AirPlus ZX

ABB

Current version : 3.0.1, issued: 04.09.2019

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This information is based on our present knowledge and experience. The safety data sheet describes products with a view to safety requirements.

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