

Safety Data Sheet

according to Regulation (EC) No 1907/2006

JointFoam A

Revision date: 24.11.2022

Product code: isoplus-003

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

1.1. Product identifier

JointFoam A

UFI: XST0-00U6-D00A-9YSS

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

Use of the substance/mixture

polyurethane component
Reserved for industrial and professional use.

Uses advised against

The product is only to be used for the intended application.

1.3. Details of the supplier of the safety data sheet

Company name: Isoplus Fernwärmetechnik GmbH
Street: Schachtstraße 28/42
Place: D-99706 Sondershausen
Telephone: +49 (3632) 6516101
e-mail: sondershausen@isoplus.group
e-mail (Contact person): kundenservice.deutschland@isoplus.group
national emergency number: +353 1 8092566

1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225
Acute Tox. 4; H302
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Glycerol, propoxylated
Propane-1,2-diol, propoxylated
Benzenediamine, ar-methyl-, polymer with 2-methyloxirane and oxirane
Cyclohexyldimethylamine

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233	Keep container tightly closed.
P273	Avoid release to the environment.
P264	Wash hands thoroughly after handling.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII: octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to REACH, annex XIII: octamethylcyclotetrasiloxane.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
25791-96-2	Glycerol, propoxylated			25 - <=40 %
	500-044-5			
	Acute Tox. 4; H302			
25322-69-4	Propane-1,2-diol, propoxylated			<=10 %
	500-039-8			
	Acute Tox. 4; H302			
287-92-3	cyclopentane			<=10 %
	206-016-6	601-030-00-2	01-2119463053-47	
	Flam. Liq. 2, Aquatic Chronic 3; H225 H412			
67800-94-6	Benzenediamine, ar-methyl-, polymer with 2-methyloxirane and oxirane			<10 %
	614-144-2			
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
56-81-5	glycerol			<=5 %
	200-289-5			
98-94-2	Cyclohexyldimethylamine			<1 %
	202-715-5		01-2119533030-60	
	Flam. Liq. 3, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 2; H226 H331 H311 H301 H314 H318 H411			
556-67-2	octamethylcyclotetrasiloxane			<0,07 %
	209-136-7	014-018-00-1	01-2119529238-36	
	Flam. Liq. 3, Repr. 2, Aquatic Chronic 1; H226 H361f H410			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
25791-96-2	500-044-5	Glycerol, propoxylated	25 - <=40 %
		oral: LD50 = 1000 mg/kg	
25322-69-4	500-039-8	Propane-1,2-diol, propoxylated	<=10 %
		dermal: LD50 = >10000 mg/kg; oral: LD50 = 1000 mg/kg	
287-92-3	206-016-6	cyclopentane	<=10 %
		inhalation: LC50 = 25,3 mg/l (vapours)	
67800-94-6	614-144-2	Benzenediamine, ar-methyl-, polymer with 2-methyloxirane and oxirane	<10 %
		oral: ATE = 500 mg/kg	
56-81-5	200-289-5	glycerol	<=5 %
		dermal: LD50 = 18700 mg/kg; oral: LD50 = 12600 mg/kg	
98-94-2	202-715-5	Cyclohexyldimethylamine	<1 %
		inhalation: LC50 = 2,23 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 380 mg/kg; oral: LD50 = 272 mg/kg	
556-67-2	209-136-7	octamethylcyclotetrasiloxane	<0,07 %
		Aquatic Chronic 1; H410: M=10	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!
Remove contaminated clothing.

After inhalation

Remove affected person from the danger area and lay down. Provide fresh air. If victim is at risk of losing consciousness, position and transport on their side. In case of breathing difficulties administer oxygen. Call a physician immediately.

After contact with skin

Remove contaminated, saturated clothing immediately. (caution, fire hazard)
After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

After contact with eyes

Remove contact lenses. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Call a physician immediately. No administration in cases of unconsciousness or cramps.

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

Harmful if swallowed.

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

Co-ordinate fire-fighting measures to the fire surroundings.
alcohol resistant foam. Carbon dioxide (CO₂). Water spray jet. Extinguishing powder.

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Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Heating causes rise in pressure with risk of bursting.
Avoid introduction into sewage systems, water bodies, cellars or closed areas. - Explosion hazard.
In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Protective clothing.

Additional information

Remove persons to safety.
Suppress gases/vapours/mists with water spray jet.
Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.
Use water spray jet to protect personnel and to cool endangered containers.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
Use only antistatically equipped (spark-free) tools.
Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

For non-emergency personnel

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal. (caution, fire hazard)

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections

Personal protection equipment: see section 8
Handling and storage: see section 7
For waste disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Consider general workplace hygiene.
Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
Always close containers tightly after the removal of product. Provide adequate ventilation.

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Use non-sparking tools.

Have fire-extinguishers in readiness.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Keep only in the original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Do not expose product to direct sunlight or extreme heat.

Further information on storage conditions

Protect from sunlight and heat sources. Avoid ignition sources.

Store separately from oxidizing agents.

7.3. Specific end use(s)

polyurethane component

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
287-92-3	Cyclopentane	600	1720		TWA (8 h)	

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
287-92-3	cyclopentane			
Consumer DNEL, long-term		inhalation	systemic	643 mg/m ³
Worker DNEL, long-term		inhalation	local	3000 mg/m ³
Consumer DNEL, long-term		oral	systemic	214 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	214 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	432 mg/kg bw/day
67800-94-6	Benzenediamine, ar-methyl-, polymer with 2-methyloxirane and oxirane			
Worker DNEL, long-term		dermal	systemic	7 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	3,9 mg/m ³
Consumer DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,2 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,33 mg/kg bw/day
56-81-5	glycerol			
Consumer DNEL, long-term		inhalation	local	33 mg/m ³
Consumer DNEL, long-term		oral	systemic	229 mg/kg bw/day
98-94-2	Cyclohexyldimethylamine			
Worker DNEL, long-term		inhalation	systemic	0,53 mg/m ³
Worker DNEL, long-term		inhalation	local	8,3 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,6 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
67800-94-6	Benzenediamine, ar-methyl-, polymer with 2-methyloxirane and oxirane	
Freshwater		0,02 mg/l
Marine water		0,002 mg/l
Freshwater sediment		0,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,00588 mg/kg
56-81-5	glycerol	
Freshwater		0,885 mg/l
Freshwater (intermittent releases)		8,85 mg/l
Marine water		0,0885 mg/l
Freshwater sediment		3,3 mg/kg
Marine sediment		0,330 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,141 mg/kg
98-94-2	Cyclohexyldimethylamine	
Freshwater		0,012 mg/l
Marine water		0,0012 mg/l
Freshwater sediment		2,76 mg/kg
Marine sediment		0,276 mg/kg
Micro-organisms in sewage treatment plants (STP)		20,6 mg/l
Soil		0,544 mg/kg

Additional advice on limit values

Currently there are no further exposure limits available.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Eye glasses with side protection (EN166)

Hand protection

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing (antistatic.) - DIN EN 1149
Overall. Boots. Wear protective gloves.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: yellowish
 Odour: Hydrocarbons

Test method

Melting point/freezing point:	No data available.
Boiling point or initial boiling point and boiling range:	No data available.
Flammability	
Solid/liquid:	No data available.
Gas:	No data available.
Lower explosion limits:	No data available.
Upper explosion limits:	No data available.
Flash point:	13 °C ISO 3679
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
pH-Value:	8
Viscosity / kinematic:	No data available.
Water solubility:	No data available.
Solubility in other solvents	
No data available.	
Partition coefficient n-octanol/water:	No data available.
Vapour pressure:	135 hPa
(at at room temperature °C)	
Vapour pressure:	335 hPa
(at 50 °C)	
Density:	No data available.
Relative vapour density:	No data available.

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
 not Explosive.

Sustaining combustion: No data available

Self-ignition temperature

 Solid: No data available.
 Gas: No data available.

Oxidizing properties
 No data available.

Other safety characteristics

Evaporation rate: No data available.

Solvent separation test: No data available.

Sublimation point: No data available.

Softening point: No data available.

Pour point: No data available.

Viscosity / dynamic: No data available.

Flow time: No data available.

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Further Information

Self ignition temperature:
cyclopentane 320°C (DIN 51794)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Electrostatic charges.

Avoid heat, sparks, open flames and other ignition sources.

Do not cut, braze, weld, solder or pressurize container as doing so may cause container to explode.

10.5. Incompatible materials

Oxidizing agents.

Acids

alkalines

Isocyanates.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Irritating/poisonous gasses and vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1361,7 mg/kg; ATE (dermal) 38383,8 mg/kg; ATE (inhalation vapour) 225,25 mg/l; ATE (inhalation dust/mist) 50,505 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25791-96-2	Glycerol, propoxylated				
	oral	LD50 mg/kg 1000	Rat		
25322-69-4	Propane-1,2-diol, propoxylated				
	oral	LD50 mg/kg 1000	Rat		
	dermal	LD50 mg/kg >10000	Rabbit		
287-92-3	cyclopentane				
	inhalation (4 h) vapour	LC50 25,3 mg/l	Rabbit		
67800-94-6	Benzenediamine, ar-methyl-, polymer with 2-methyloxirane and oxirane				
	oral	ATE mg/kg 500			
56-81-5	glycerol				
	oral	LD50 mg/kg 12600	Rat		
	dermal	LD50 mg/kg 18700	Rabbit		
98-94-2	Cyclohexyldimethylamine				
	oral	LD50 mg/kg 272	Rat	Registration Dossier / ECHA	
	dermal	LD50 mg/kg 380	Rat		
	inhalation (4 h) vapour	LC50 2,23 mg/l	Rat		
	inhalation dust/mist	ATE 0,5 mg/l			

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

none known

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
56-81-5	glycerol					
	Acute fish toxicity	LC50 mg/l	54000	96 h	Leuciscus idus	ECHA
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	ECHA

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
56-81-5	glycerol	-1,75

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII:
octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to REACH, annex XIII:
octamethylcyclotetrasiloxane.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Do not dispose of residual product with household waste and do not empty into the sink or toilet.

According to the European Waste Catalogue (EWC), allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

Contaminated packaging

packaging containing residues of or contaminated by dangerous substances: Do not cut, braze, weld, solder or pressurize container as doing so may cause container to explode. Vapours can form explosive mixtures with air.

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

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Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (cyclopentane)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Classification code: F1
 Special Provisions: 274 601 640D
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 33
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (cyclopentane)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Classification code: F1
 Special Provisions: 274 601 640D
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (cyclopentane)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (cyclopentane)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3

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Special Provisions:	A3	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautions known.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
octamethylcyclotetrasiloxane

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 70, Entry 75

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D):

2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

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15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

cyclopentane
Cyclohexyldimethylamine
octamethylcyclotetrasiloxane

SECTION 16: Other information

Changes

Version 1,00 - 23.11.2022 - first creation

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act
CAS: Chemical Abstracts Service
DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
EC: Effective Concentration
EG: European Community (Europäische Gemeinschaft)
EN: European Norm
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
ISO: Norm of the International Standards Organization
CLP: Classification, Labeling, Packaging
IUCLID: International Uniform Chemical Information Database
LC: Lethal concentration
LD: Lethal dose
log Kow: Octanol/water partition coefficient
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, bio-cumulative, toxic
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bio-cumulative
VwVwS: Administrative Regulation for Water Pollutants
WGK: German Water Hazard Class
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
TLV: Threshold Limiting Value
STOT: Specific Target Organ Toxicity
AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H302	Calculation method
Aquatic Chronic 3; H412	Calculation method

Safety Data Sheet

according to Regulation (EC) No 1907/2006

JointFoam A

Revision date: 24.11.2022

Product code: isoplus-003

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Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)