

SECTION 1: Identification

1.1. GHS Product identifier

Product form	: Article					
Product name	: VSH Klem (fittings)					
6320765	6321172	6321601	6321997	6322272	6323141	6323548
6320831	6321194	6321623	6322019	6322327	6323152	6323559
6320864	6321106	6321634	6322085	6322393	6323163	6323570
6320875	6321150	6321667	6322107	6322437	6323231	6323669
6320974	6321251	6321678	6322140	6322470	6323251	6323680
6321018	6321271	6321689	6322151	6322525	6323295	6323988
6321029	6321282	6321700	6322162	6322646	6323328	6323999
6321040	6321304	6321722	6322173	6322668	6323339	6324001
6321051	6321315	6321733	6322184	6322877	6323341	6324010
6322932	6321348	6321832	6322195	6322901	6323350	6563106
6322998	6321359	6321854	6322206	6322987	6323372	6563117
6321095	6321361	6321865	6322217	6323009	6323383	6563128
6321139	6321381	6321898	6322228	6323011	6323451	
6321141	6321579	6321953	6322241	6323020	6323482	
6321161	6321590	6321986	6322250	6323031	6323493	

1.2. Other means of identification

Other means of identification : SCIP Number: 98ab3390-1a8e-4560-943d-8a0d9c101b3e

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Professional use
Recommended use : Product for connecting steel pipes

1.4. Supplier's details

Aalberts integrated piping systems BV B.V.
Oude Amersfoortseweg 99
NL- 1212AA Hilversum
The Netherlands
T +31 35 688 4211

1.5. Emergency phone number

Country	Organisation/Company	Address	Emergency number	Comment
Netherlands	Nationaal Vergiftigingen Informatie Centrum	Huispostnummer B.00.118 Postbus 85500 3508 GA Utrecht	+31 88 755 80 00	Only for the purpose of informing medical personnel in cases of acute intoxications

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 1A	H360
Reproductive toxicity, Additional category, Effects on or via lactation	H362
Specific target organ toxicity — Repeated exposure, Category 1	H372
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400

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Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

: Steel products are not considered as hazardous. However, individual customer processes such as welding, sawing, brazing, grinding, abrasive blasting, and machining may result in the formation of fumes, dust (combustible or otherwise), and/or particulate that may present the described hazards.

2.2. GHS Label elements, including precautionary statements

No labelling obligation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : CW617N

Name	Product identifier	%	Classification according to the United Nations GHS
Copper	CAS-No.: 7440-50-8	50 – 70	Aquatic Acute 1, H400 (M=10)
Zinc	CAS-No.: 7440-66-6	< 50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lead	CAS-No.: 7439-92-1	1 – 3	Carc. 2, H351 Repr. 1A, H360 Lact., H362 STOT RE 1, H372 Aquatic Acute 1, H400
Nickel	CAS-No.: 7440-02-0	< 1	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Not specifically applicable to the product (as is).
First-aid measures after skin contact : Not applicable.
First-aid measures after eye contact : Not applicable.
First-aid measures after ingestion : Ingestion is not considered a potential route of exposure. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

No additional information available

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Fire hazard : Not expected to be a fire/explosion hazard under normal conditions of use.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust/fume/gas/mist/vapours/spray. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing. Wear personal protective equipment.
Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: None under normal use
Eye protection	: Safety glasses
Skin and body protection	: No special clothing/skin protection equipment is recommended under normal conditions of use
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: metal
Colour	: Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability (solid, gas)	: Not available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not applicable
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Solubility	: Not available
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Nickel (7440-02-0)

LD50 oral rat > 9000 mg/kg bodyweight

LC50 Inhalation - Rat $\geq 10,2$ mg/l

Copper (7440-50-8)

LC50 Inhalation - Rat > 5,11 mg/l/4h

Zinc (7440-66-6)

LD50 oral rat > 2000 mg/kg bodyweight

LC50 Inhalation - Rat > 5410 mg/m³

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : May damage fertility or the unborn child. May cause harm to breast-fed children.

STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Lead (7439-92-1)

STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

Nickel (7440-02-0)

STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

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Classification procedure (Hazardous to the aquatic environment, short-term (acute)) : Calculation method
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.
Classification procedure (Hazardous to the aquatic environment, long-term (chronic)) : Calculation method

Lead (7439-92-1)	
LC50 - Fish [1]	0,44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
LC50 - Fish [2]	1,17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	600 µg/l (Exposure time: 48 h - Species: water flea)
Nickel (7440-02-0)	
LC50 - Fish [1]	15,3 mg/l (Oncorhynchus mykiss)
EC50 - Crustacea [1]	87,5 µg/l (Ceriodaphnia dubia)
NOEC chronic fish	0,124 mg/l
Copper (7440-50-8)	
LC50 - Fish [1]	0,0068 – 0,0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 - Fish [2]	< 0,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	0,03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 72h - Algae [1]	0,0426 – 0,0535 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	0,031 – 0,054 mg/l (Species: Pseudokirchneriella subcapitata [static])
Zinc (7440-66-6)	
LC50 - Fish [1]	315 µg/l

12.2. Persistence and degradability

VSH Klem (fittings)	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

VSH Klem (fittings)	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

VSH Klem (fittings)	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.




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SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
		
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

UN RTDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

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Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
	UN-No.(UN RTDG)	Removed	
	UN-No. (IMDG)	Removed	
	UN-No. (IATA)	Removed	

Other information

: REACH Disclaimer:

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Full text of H-statements:	
H228	Flammable solid
H261	In contact with water releases flammable gases
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet applicable for regions

: NL - Netherlands

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