

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form	: Article												
Product name	: VSH Super												
0865997	0879483	0880143	0861707	0862389	0863192	0877745	0866635	0881641	0875930	0886094	0883850	0893541	0893200
0879208	0879494	0880154	0861850	0862400	0863203	0877767	0866701	0881650	0871332	0886105	0883861	0893552	0893398
0879219	0891000	0880165	0861905	0862411	0863302	0881023	0866987	0881661	0871354	0886787	0878108	0893563	0893189
0879221	0891011	0880176	0861927	0862488	0863401	0881034	0866998	0881672	0875831	0887139	0878119	0893640	0893431
0879230	0891022	0880187	0861949	0862499	0863489	0881056	0867009	0881683	0875853	0866932	0878121	0893321	0893255
0879263	0891033	0882387	0861971	0862501	0863500	0881067	0867053	0881694	0871343	0866954	0878130	0893464	0893112
0879274	0891044	0896027	0861993	0862587	0863601	0881078	0867174	0881751	0871365	0882013	0878141	0893090	0893411
0876810	0892001	0896038	0862070	0862598	0863610	0881089	0867284	0885973	0875875	0882024	0878152	0893521	0893354
0879065	0892100	0896049	0862114	0862609	0863709	0881091	0867394	0886292	0875897	0882035	0878163	0893222	0893277
0879098	0891055	0896051	0862917	0862611	0863731	0881100	0872731	0886314	0867955	0882046	0878174	0893673	0893178
0879252	0892012	0896060	0866393	0862686	0863753	0881201	0872740	0886688	0867999	0882057	0878185	0893772	0893123
0879351	0892111	0860211	0866415	0862708	0872553	0882508	0872751	0896874	0865007	0882068	0878196	0893244	0893409
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0879538	0892122	0860783	0873939	0868846	0880924	0896621	0881463	0896951	0897006	0870001	0879111	0893783	
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0879109	0892133	0873103	0874104	0872410	0880946	0862829	0881485	0896973	0874500	0870045	6340444	0893343	
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0879043	0892199	0896258	0880517	0896401	0882827	0872707	0867231	0882079	0861817	0881001	0865546	0893607	
0879142	0891418	0857505	0880528	0896412	0882838	0872872	0867240	0882081	0885071	0881111	0882365	0893497	
0879560	0891429	0861003	0880539	0896423	0886479	0872883	0867251	0882090	0885082	0881122	0865691	0893101	
0879571	0891541	0861201	0880541	0896434	0862004	0881210	0867262	0882101	0885093	0881133	0878328	0893684	
0879582	0860081	0861212	0880550	0861124	0862026	0881232	0867273	0882376	0885104	0881144	0882926	0893695	
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0879661	0860409	0861344	0880792	0872256	0863984	0881276	0867451	0869847	0885148	0881188	0882882	0893057	
0879670	0860411	0861377	0885951	0872267	0864193	0881287	0872071	0869880	0885159	2614953	0882851	0893442	
0879681	0860508	0861401	0886633	0880814	0864402	0881342	0875633	0875798	0885161	0879989	0893035	0893002	
0879725	0860607	0861454	0896302	0880825	0864457	0886709	0875655	0875811	0885170	0405680	0893145	0893332	
0879813	0860706	0861498	0896313	0880836	0864490	0896711	0875677	0881837	0885181	0604340	0893068	0893167	
0879824	0862851	0861509	0896324	0880869	0864501	0896720	0881408	0867988	0885192	0604362	0893508	0893013	

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0879835	0862862	0861520	0896335	0880871	0864512	0896731	0881507	0871706	0885247	0879991	0893629	0893420
0879846	0862873	0861586	0896346	0880880	0864523	0863016	0881551	0883003	0885931	0878306	0893838	0893191
0879857	0866239	0861597	0862246	0886908	0864534	0863027	0881562	0867977	0886017	0878317	0893475	0893046
0879868	0866272	0861608	0862268	0861181	0864600	0863038	0881584	0871805	0886028	0880242	0893631	0893288
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0879450	0876315	0861621	0862301	0876876	0871079	0312070	0881606	0866030	0886041	0878097	0893310	0893024
0879461	0880121	0861630	0862312	0863115	0875952	0862091	0881617	0866019	0886050	0878273	0893233	0893266
0879472	0880132	0861696	0862367	0863181	0877701	0866613	0881639	0866021	0886061	0878284	0893486	0893299

### 1.2. Other means of identification

Other means of identification : SCIP Number: 1e5d1bf2-d72d-4b8f-ba91-73f637c5ac6d

### 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 1A	H350
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
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

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : CW617N or CW602N or CW603N

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 – 5	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
Arsenic	CAS-No.: 7440-38-2	0,01 – 0,25	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Carc. 1A, H350 Repr. 1A, H360 STOT RE 1, H372 Aquatic Acute 3, H402 Aquatic Chronic 1, H410

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.

### 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.

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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.

### 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)

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### 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.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 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	≥ 10,2 mg/l

#### Copper (7440-50-8)

LC50 Inhalation - Rat	> 5,11 mg/l/4h
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#### Zinc (7440-66-6)

LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5410 mg/m <sup>3</sup>

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 : May cause 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.
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#### Nickel (7440-02-0)

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

#### Arsenic (7440-38-2)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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Classification procedure (Hazardous to the aquatic environment, long-term (chronic)) : Calculation method

<b>Lead (7439-92-1)</b>	
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)
<b>Nickel (7440-02-0)</b>	
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
<b>Copper (7440-50-8)</b>	
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])
<b>Arsenic (7440-38-2)</b>	
LC50 - Fish [1]	12,6 mg/l (Pimephales promelas)
<b>Zinc (7440-66-6)</b>	
LC50 - Fish [1]	315 µg/l

### 12.2. Persistence and degradability

<b>VSH Super</b>	
Persistence and degradability	No additional information available

### 12.3. Bioaccumulative potential

<b>VSH Super</b>	
Bioaccumulative potential	No additional information available

### 12.4. Mobility in soil

<b>VSH Super</b>	
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.




## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

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UN RTDG	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. UN Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
		
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
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

Issue date : 22/06/2021  
Revision date : 22/11/2021  
Supersedes : 22/06/2021

Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	



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Section	Changed item	Change	Comments
	UN-No.(UN RTDG)	Removed	
	UN-No. (IMDG)	Removed	
	UN-No. (IATA)	Removed	

Other information

: REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-statements:	
H228	Flammable solid
H261	In contact with water releases flammable gases
H301	Toxic if swallowed
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H350	May cause cancer
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
H401	Toxic to aquatic life
H402	Harmful 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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