

# SHIELD TECHNOLOGY LIMITED

## SAFETY DATA SHEET

In compliance with Article 31 and Annex II of Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**Revision Date: September 2015**

**Product Name:** ToolGuard VCI

**Section 1: Identification of the substance/preparation and of the company/undertaking.**

**Application:** Vapour Phase Corrosion Inhibitor (SDS refers to liquid used in the manufacture of the ToolGuard VCI product)

**Manufacturer:** Shield Technology Ltd  
Unit 69 Grimsby Business Centre  
King Edward Street  
Grimsby DN31 3JH  
United Kingdom

**Telephone Number** +44 (0)1472 360699

**E-mail** [info@shieldtechnology.co.uk](mailto:info@shieldtechnology.co.uk)

**Emergency Telephone Number** 07743 300 454

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**Section 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

This mixture is not classified as dangerous according to Directive 1999/45/EC

GHS Classification

This mixture is not classified as dangerous according to Regulations (EC) No. 1272/2008

**2.2. Label Elements**

**Signal word: WARNING**

**H317/319: May cause Irritation to eyes and skin.**

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### **Section 3: Composition/Information on Ingredients**

#### **3.2 Mixture (chemical characterization)**

A blend of corrosion inhibitors, antioxidants, metals deactivators in a hydro refined naphthenic oil	
Registration number (REACH)	
EU Index number	
EC Number	253-891-5 Caprylic acid, morpholine salt
CAS	38344-72-8
Content%	80-90%

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### **Section 4: First Aid Measures**

#### **4.1 Description of First Aid Measures**

General Information

Change contaminated clothing

After Inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

#### **After Contact with skin**

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

#### **After Contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult Ophthalmologist

#### **After Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician immediately.

#### **4.2 Most Important symptoms and effects, both acute and delayed**

No information available

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

No Information available

## **Section 5: Firefighting Measure**

### **5.1 Extinguishing Media**

#### **Suitable extinguishing media**

Extinguishing powder. Foam. Carbon dioxide (CO<sub>2</sub>).

#### **Unsuitable extinguishing media**

Water

### **5.2 Special hazards arising from the substance or mixture**

In case of toxic fumes, smoke and carbon monoxide may be released.

### **5.3 Advice for Firefighters**

In case of fire. Wear self-contained breathing apparatus.

#### **Additional Information**

No further information available

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## **Section 6: Accidental Release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing and gloves – oil resistant

### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains (refers to liquid form of product only)

### **6.3 Methods and material for containment and cleaning up**

Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid or universal binding agents)

### **6.4 Reference to other sections**

SECTION 13: Disposal considerations

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## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Advice on safe handling

Avoid release to the environment (refers to liquid form of product only)

Avoid Skin contact, Eye Contact

### **Advice of protection against fire and explosion**

Keep away from sources of ignition – No smoking

### **Further information on handling**

Avoid: overheating above max 40° C

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep containers tightly closed. Keep container dry

Avoiding non-ferrous metals, including galvanised steel.

#### **Advice on storage compatibility**

Avoiding non-ferrous metals, including galvanized steel

Do not store with strong oxidizing agents and food.

#### **Further information on storage conditions**

Maximum Storage Temperature 40 C

## **Section 8: Exposure Controls/personal protection**

### **8.1 Control parameters**

Additional advice on limit values  
To date, no national critical limit values exist

### **8.2 Exposure controls**

Protective hygiene measures  
Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream.  
When using do not eat or drink. Wash hands before breaks and after work.

#### **Eye/Face Protection**

Wear eye/face protection

#### **Hard Protection**

Wear protective gloves, liquid-tight, oil resistant.

#### **Skin Protection**

Wear Suitable protective clothing

#### **Respiratory protection**

On vapour and aerosol formation use respirator filter type A2, A2/P2 from ignition (If in doubt seek advice from your supplier of PPE)



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## **Section 9: Physical and Chemical Properties**

### 9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance	: Red liquid
9.2 Odour	: Mild ammoniacal
9.3 pH	: Aqueous dispersion 7.0 units
9.4 Boiling point/range	: N/A
9.5 Melting point/range	: N/A
9.6 Flash point	: Greater than >90 deg C
9.7 Flammability	: Combustible
9.8 Auto-flammability	: Not known
9.9 Explosive properties	: N/A
9.10 Oxidising properties	: N/A
9.11 Vapour pressure	: N/A
9.12 Relative density	: 0.91 – 0.93
9.13 Solubility	: Insoluble in water

## **Section 10: Stability and reactivity**

### **10.1 Reactivity**

The product is stable under storage at normal ambient temperatures

### **10.2 Chemical Stability**

The product is stable under storage at normal ambient temperatures

### **10.3 Possibility of hazardous reactions**

No known hazardous reactions

### **10.4 Conditions to avoid**

Strong oxidizing agents  
Overheating

### **10.5 Incompatible materials**

Strong oxidizing agents  
Further information  
No information available

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**Section 11. Toxicological Information**  
**11.1 Information on toxicological effects**

Irritation and corrosivity  
Slightly irritant - Irritating to eyes, respiratory system and skin  
Sensitising effects  
Not sensitising

**STOT-single exposure**

No target organ toxicity

**Severe effects after repeated or prolonged exposure**

No information available

**Section 11: Toxicological Information Continued**

**Carcinogenic/mutagenic/toxic effects for reproduction**

No information available

**Aspiration Hazard**

No Information available

**Specific effects in experiment on an animal**

No information available

**Additional information on tests**

No information available

**Practical Experience**

**Observations relevant to classification**

No information available

**Other Observations**

No information available

**Further Information**

No information available

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## **Section 12: Ecological Information**

### **12.1 Toxicity**

No information available

### **12.2 Persistence and Degradability**

Not readily biodegradable (according to OECD criteria)

### **12.3 Bioaccumulative potential**

No information available

### **12.4 Mobility in Soil**

No information available

### **12.5 Results of PBT and vPvB assessment**

Not classified as PBT and VpVB

### **12.6 Other adverse effects.**

No information available

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## **Section 13: Disposal Considerations**

### **13.1 Waste treatment methods**

Advice on disposal

Dispose of waste according to applicable legislation.

Waste Disposal number of waste from residual/unused products

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified.

Waste Disposal number of used products

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified.

Waste Disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Remove according to the regulations.

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## **Section 14: Transport Information**

### **Land Transport (ADR/RID)**

Other applicable information (land transport)  
No dangerous goods in sense of this transport regulation.

### **Inland Waterways transport (ADN)**

Other applicable information (inland waterways transport)  
No dangerous goods in sense of this transport regulation.

### **Marine Transport (IMDG)**

Other applicable information (marine transport)  
No dangerous goods in sense of this transport regulation

### **Air Transport (ICAO)**

Other applicable information (air transport)  
No dangerous goods in sense of this transport regulation

### **14.5. Environment hazards**

Dangerous for the environment: NO

### **14.6 Special Precautions for user**

No. Not dangerous goods in the sense of this transport regulation

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## **Section 15: Regulatory Information**

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

National regulatory information  
Water contaminating class (D) 1 – slightly water contaminating  
Additional Information  
No ingredient is listed in the SVHC List

**Section 16: Other information**  
**Changes**

The format is REACH and it's amending Regulation (EC) 453/2010.  
Added information in all areas.  
Classification according to Regulation (EC) No. 1272/2008 CLP

Full text of R phrases referred to under Sections 2 and 3

R36/38Irritating to eyes and skin.

Further information

Ingredients listed in the following national inventories:

TSCA

EINECS/ELINCS

KECL

IECSC

ENCS (Class 1 and 2)

AICS

DSL/NDSL

PICCS

The above information describes exclusively the safety requirements of the product and is based on our present day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage processing, transport and disposal. The information cannot be transferred to other products. In case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made up material.

**Revision Date:**

<b>Date of amendment</b>	<b>Amendment</b>	<b>Issue No:</b>	<b>Notes</b>
<b>30/9/2015</b>	<b>Labelling R-H Phrase R36/38 -H317/318 May cause skin&amp; eye irritation.</b>	<b>Issue 1</b>	