

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)

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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.

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%

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 (CO₂).

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

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

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)



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

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

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

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.

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

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/NDL

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:

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