	Page: 1
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_NL

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

1.1 Product identifier

Trade name : Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE

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

Recommended use : Coatings

1.3 Details of the supplier of the safety data sheet

Ellis Enterprises B.V., an affiliate of Valvoline
Wieldrechtseweg 39
3316 BG Dordrecht
Netherlands
+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SDS@valvoline.com

1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact
your local emergency telephone number at 030
274 88 88

Product Information

+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

H222: Extremely flammable aerosol.


H229: Pressurised container: May burst if heated.

Specific target organ toxicity - single
exposure, Category 3, Central nervous
system

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

	Page: 2
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.

Precautionary statements

: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
Storage:
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics
Hydrocarbons, C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components



SAFETY DATA SHEET

Revision Date: 28.05.2019

Print Date: 02.11.2021

SDS Number: R0517903

Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE

Version: 3.0

887095


Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 25,00 - < 40,00
Hydrocarbons, C9-C11, n-alkanes, iso- alkanes, cyclenes, <2% aromatics	1174522-20-3 919-857-5 01-2119463258-33-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304	>= 20,00 - < 25,00
Hydrocarbons, C9- C10, n-alkanes, iso- alkanes, cyclics, <2% aromatics	927-241-2 01-2119471843-32-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic3; H412	>= 20,00 - < 25,00
Substances with a workplace exposure limit :			
Talc	14807-96-6 238-877-9		>= 5,00 - < 10,00

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Consult a physician after significant exposure.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

	Page: 4
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE 887095	Version: 3.0

If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.

Risks : May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet


5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

	Page: 5
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

for firefighters

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Remove all sources of ignition.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Take precautionary measures against static discharges.
Avoid exposure - obtain special instructions before use.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

**SAFETY DATA SHEET**

Revision Date: 28.05.2019

Print Date: 02.11.2021

SDS Number: R0517903

Tectyl™ UNDERBODY COATING BRONZE RUST
PREVENTATIVE

Version: 3.0

887095

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. No smoking.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**


Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc	14807-96-6	TLV-8hr (Respirable)	0,25 mg/m3 Respirable	NL WG
		TWA (Respirable dust)	0,1 mg/m3 Respirable dust	2004/37/EC

8.2 Exposure controls**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed

	Page: 7
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE 887095	Version: 3.0

into eyes.

Hand protection

Remarks : Nitrile rubber butyl-rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
In the case of dust or aerosol formation use respirator with an approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : bronze

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available


Boiling point/boiling range : No data available

Flash point : < 0 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

	Page: 8
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE 887095	Version: 3.0

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0,8 g/cm³ (20 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability


Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

	Page: 9
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

None known.

10.5 Incompatible materials

Materials to avoid : Acids
alkalis
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

PROPANE:

Acute inhalation toxicity : **LC50 (Rat): 1.237 mg/l**
Exposure time: **2 h**
Test atmosphere: **gas**
Assessment: **Not classified as acutely toxic by inhalation under GHS.**
Remarks: **Information given is based on data obtained from similar substances.**

Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

Acute oral toxicity : **LD50 (Rat, male and female): > 15.000 mg/kg**
Method: **OECD Test Guideline 423**
Remarks: **Information given is based on data obtained from similar substances.**

Acute inhalation toxicity : **LC50 (Rat): > 4,95 mg/l**
Exposure time: **4 h**
Test atmosphere: **vapour**

SAFETY DATA SHEET

Revision Date: 28.05.2019

Print Date: 02.11.2021

SDS Number: R0517903

Tectyl™ UNDERBODY COATING BRONZE RUST
PREVENTATIVE

Version: 3.0

887095

Method: **OECD Test Guideline 403**
Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**
Remarks: **Information given is based on data obtained from similar substances.**

Acute dermal toxicity : **LD50 (Rabbit, male and female): >= 3.160 mg/kg**
Method: **OECD Test Guideline 402**
Assessment: **No adverse effect has been observed in acute dermal toxicity tests.**
Remarks: **Information given is based on data obtained from similar substances.**

Components:
Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:

Acute oral toxicity : **LD50 (Rat): > 5.000 mg/kg**
Remarks: **Information given is based on data obtained from similar substances.**

Acute inhalation toxicity : **LC50 (Rat): > 5,0 mg/l**
Exposure time: **4 h**
Test atmosphere: **dust/mist**
Method: **OECD Test Guideline 403**
Assessment: **Not classified as acutely toxic by inhalation under GHS.**
Remarks: **Information given is based on data obtained from similar substances.**

Acute dermal toxicity : **LD50 (Rabbit): >= 3.160 mg/kg**
Method: **OECD Test Guideline 402**
Assessment: **Not classified as acutely toxic by dermal absorption under GHS.**
Remarks: **No mortality observed at this dose.**
Information given is based on data obtained from similar substances.

Skin corrosion/irritation


Not classified based on available information.

Components:
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes,cyclenes, <2% aromatics:

Result: **Slight, transient irritation**
Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:

Species: **Rabbit**

Method: **OECD Test Guideline 404**

	Page: 11
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

TALC:

Result: **Slight, transient irritation**

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

Result: **No eye irritation**

Hydrocarbons, C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics:

Species: **Rabbit**

Method: **OECD Test Guideline 405**

Result: **No eye irritation**

Remarks: **Information given is based on data obtained from similar substances.**

TALC:

Result: **Slight, transient irritation**

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

Hydrocarbons, C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics:

Test Type: **Maximisation Test**

Species: **Guinea pig**

Assessment: **Did not cause sensitisation on laboratory animals.**

Method: **OECD Test Guideline 406**

Remarks: **Information given is based on data obtained from similar substances.**

Germ cell mutagenicity

Not classified based on available information.

Components:

PROPANE:

Genotoxicity in vitro


: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

Remarks: **Information given is based on data obtained from similar substances.**

	Page: 12
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:

Genotoxicity in vitro : Test Type: **Ames test**
Result: **negative**
Remarks: **Information given is based on data obtained from similar substances.**

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes,cyclenes, <2% aromatics:

Assessment: **May cause drowsiness or dizziness.**

Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:

Assessment: **May cause drowsiness or dizziness.**

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes,cyclenes, <2% aromatics:

May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

SAFETY DATA SHEET

Revision Date: 28.05.2019

Print Date: 02.11.2021

SDS Number: R0517903

Tectyl™ UNDERBODY COATING BRONZE RUST
PREVENTATIVE

Version: 3.0

887095


12.1 Toxicity
Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)) : > 1.000 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)) : 1.000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: EL50 (Pseudokirchneriella subcapitata (green algae)) : > 1.000 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201

Hydrocarbons, C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)) : > 10 - < 30 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)) : > 22 - < 46 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: EL50 (Pseudokirchneriella subcapitata (green algae)) : > 1.000 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR : 0,182 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR

	Page: 14
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

12.2 Persistence and degradability

Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **80 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301F**

Hydrocarbons, C9-C10, n-alkanes, iso-alkanes, cyclics, <2% aromatics

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **89 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301F**

12.3 Bioaccumulative potential

Components:

Propane

Partition coefficient: n-octanol/water : log Pow: **2,36**

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects


Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

	Page: 15
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name


ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN
Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
ADR
Packing group : Not assigned by regulation

	Page: 16
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE 887095	Version: 3.0

Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation
Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1

IMDG

Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable gas

IATA (Passenger)

Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable gas

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG


Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

	Page: 17
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable


Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
18	Liquefied extremely flammable gases (including LPG) and natural gas	50 t	200 t

Other regulations : Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

	Page: 18
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

AICS	On the inventory, or in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	Not in compliance with the inventory
TSCA	On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information


Further information

Revision Date: 28.05.2019

Full text of H-Statements

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department ('+31 (0)78 654 3500).


	Page: 19
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
887095	

Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
CLP : Classification, Labelling and Packaging
CSA : Chemical Safety Assessment

	Page: 20
SAFETY DATA SHEET	Revision Date: 28.05.2019
	Print Date: 02.11.2021
	SDS Number: R0517903
Tectyl™ UNDERBODY COATING BRONZE RUST PREVENTATIVE	Version: 3.0
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CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class