


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

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

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

Trade name : Tectyl® ML GREEN LINE
CORROSION INHIBITOR

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

Recommended use : Corrosion inhibitor.

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 112

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.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 00000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

Hazard statements	: H222 H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Precautionary statements	: P101 P102 Prevention: P210 P211 P251 Storage: P410 + P412	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Additional Labelling:

EUH208 Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

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

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7	Asp. Tox.1; H304	>= 25,00 - < 40,00
ALKARYL LONG CHAIN CALCIUM SULFONATE	722503-69-7	Aquatic Chronic4; H413	>= 2,50 - < 5,00
Cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6	Eye Irrit.2; H319 Skin Sens.1A; H317 Repr.1B; H360F	>= 0,00 - < 0,10
Substances with a workplace exposure limit :			
Butane	106-97-8	Flam. Gas1; H220	>= 15,00 - < 25,00


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

 203-448-7
 01-2119474691-32-xxxx

 Press. GasLiquefied
 gas; H280

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.
Show this safety data sheet to the doctor in attendance.
- If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- 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.
- 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.

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.


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

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 for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

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 smoke.
Container hazardous when empty.
Take precautionary measures against static discharges.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
Container may be opened only under exhaust ventilation hood.

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


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Butane	106-97-8	STEL	750 ppm 1.810 mg/m ³	GB EH40
		TWA	600 ppm 1.450 mg/m ³	GB EH40
Cobalt bis(2-ethylhexanoate)	136-52-7	TWA	0,1 mg/m ³ (Cobalt)	GB EH40

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 into eyes.

Hand protection

Remarks : 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.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : amber


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

Odour Threshold	: No data available
pH	: Not applicable
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
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,70 g/cm ³ (20 °C)
Solubility(ies)	
Water solubility	: immiscible
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	: Not applicable
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SECTION 10: Stability and reactivity


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

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.

None known.

10.5 Incompatible materials
Materials to avoid : Acids
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:
HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation under GHS.

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

Remarks: **No mortality observed at this dose.****Components:****COBALT 2-ETHYLHEXANOATE:**Acute oral toxicity : **LD50 (Rat, female): ca. 3.129 mg/kg**Acute inhalation toxicity : **LC50 (Rat): > 10 mg/l**
Exposure time: **1 h**
Test atmosphere: **dust/mist**
Assessment: **Not classified as acutely toxic by inhalation under GHS.**Acute dermal toxicity : **LD50 (Rabbit): > 5.000 mg/kg****Components:****BUTANE NORMAL:**Acute inhalation toxicity : **LC50 (Mouse): 680 mg/l**
Exposure time: **2 h****LC50 (Rat): > 50000 ppm**
Exposure time: **2 h**
Test atmosphere: **gas****Skin corrosion/irritation**

Not classified based on available information.

Components:**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**Species: **Rabbit**Result: **No skin irritation****COBALT 2-ETHYLHEXANOATE:**Result: **No skin irritation****Serious eye damage/eye irritation**

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**Species: **Rabbit**Result: **No eye irritation****COBALT 2-ETHYLHEXANOATE:**


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

Species: **Rabbit**
 Method: **OECD Test Guideline 405**
 Result: **Irritating to eyes.**

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:
HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Test Type: **Buehler Test**
 Species: **Guinea pig**
 Assessment: **Does not cause skin sensitisation.**

COBALT 2-ETHYLHEXANOATE:

Test Type: **Local lymph node assay**
 Species: **Mouse**
 Assessment: **The product is a skin sensitiser, sub-category 1A.**
 Method: **OECD Test Guideline 429**
 Remarks: **Information given is based on data obtained from similar substances.**

Germ cell mutagenicity

Not classified based on available information.

Components:
COBALT 2-ETHYLHEXANOATE:

Genotoxicity in vitro : Test Type: **Ames test**
 Result: **negative**

Genotoxicity in vivo : Test Type: **In vivo micronucleus test**
 Result: **negative**

BUTANE NORMAL:

Genotoxicity in vitro : Test Type: **Ames test**
 Test species: **Salmonella typhimurium**
 Metabolic activation: **with and without metabolic activation**
 Result: **negative**

Carcinogenicity


Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:
COBALT 2-ETHYLHEXANOATE:

Reproductive toxicity - Assessment : **Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.**

		Page: 11
SAFETY DATA SHEET		Revision Date: 26.09.2018
		Print Date: 07.12.2018
		SDS Number: 000000184055
Tectyl® ML GREEN LINE CORROSION INHIBITOR		Version: 4.0
782375		

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Distillates (petroleum), hydrotreated light paraffinic

Toxicity to fish	: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201

SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

Toxicity to fish (Chronic toxicity) : **NOELR: Calculated \geq 1.000 mg/l**
 Exposure time: **14 d**
 Species: **Oncorhynchus mykiss (rainbow trout)**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEL: 10 mg/l**
 Exposure time: **21 d**
 Species: **Daphnia (water flea)**
 Test substance: **WAF**
 Method: **OECD Test Guideline 211**

ALKARYL LONG CHAIN CALCIUM SULFONATE**Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : **May cause long lasting harmful effects to aquatic life.**

Cobalt bis(2-ethylhexanoate)

M-Factor (Short-term (acute) aquatic hazard) : **1**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : **Acute aquatic toxicity Category 1**

Long-term (chronic) aquatic hazard : **Chronic aquatic toxicity Category 3**

Butane

Toxicity to fish : **Remarks: No toxicity at the limit of solubility QSAR**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): Expected $> 10 - < 100$ mg/l**
 Exposure time: **48 h**
 Remarks: **QSAR**

Toxicity to algae : **EC50 (green algae): Expected 7,7 mg/l**
 Exposure time: **96 h**
 Remarks: **QSAR**

12.2 Persistence and degradability**Components:**

Distillates (petroleum), hydrotreated light paraffinic

Biodegradability : **Result: Not readily biodegradable.**
 Biodegradation: **2 - 4 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301B**

Cobalt bis(2-ethylhexanoate)

SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **60 %**
Exposure time: **10 d**
Method: **OECD Test Guideline 301B**

Butane

Biodegradability : Result: **Readily biodegradable.**
Remarks: **Information given is based on data obtained from similar substances.**

12.3 Bioaccumulative potential**Components:**

Butane

Partition coefficient: n-octanol/water : log Pow: **2,89**

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.
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.

		Page: 14
SAFETY DATA SHEET		Revision Date: 26.09.2018
		Print Date: 07.12.2018
		SDS Number: 000000184055
Tectyl® ML GREEN LINE CORROSION INHIBITOR		Version: 4.0
782375		

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

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

		Page: 15
SAFETY DATA SHEET		Revision Date: 26.09.2018
		Print Date: 07.12.2018
		SDS Number: 000000184055
Tectyl® ML GREEN LINE CORROSION INHIBITOR		Version: 4.0
782375		

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.

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

		Page: 16
SAFETY DATA SHEET		Revision Date: 26.09.2018
		Print Date: 07.12.2018
		SDS Number: 000000184055
Tectyl® ML GREEN LINE CORROSION INHIBITOR		Version: 4.0
782375		

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 57). : 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 : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.

AICS Not in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

IECSC	Not 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: 26.09.2018

Full text of H-Statements

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H413	May cause long lasting harmful effects to aquatic life.

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).

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.


SAFETY DATA SHEET

Revision Date: 26.09.2018

Print Date: 07.12.2018

SDS Number: 000000184055

Tectyl® ML GREEN LINE CORROSION INHIBITOR

Version: 4.0

782375

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

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-phrases : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

	Page: 19
SAFETY DATA SHEET	Revision Date: 26.09.2018
	Print Date: 07.12.2018
	SDS Number: 000000184055
Tectyl® ML GREEN LINE CORROSION INHIBITOR 782375	Version: 4.0

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
S-phrase: Safety phrase
WGK : German Water Hazard Class