

	Page: 1
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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

: Valvoline™ LEAK DETECTOR SPRAY

™ Trademark, Valvoline or its subsidiaries, registered in various countries

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

Recommended use : Preparation

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 3

H229: Pressurised container: May burst if heated.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Specific target organ toxicity - repeated
exposure, Category 2, Kidney

H373: May cause damage to organs through
prolonged or repeated exposure if swallowed.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



SAFETY DATA SHEET

Revision Date: 16.11.2018

Print Date: 16.10.2020

SDS Number: 000000274764

Version: 1.1

Valvoline™ LEAK DETECTOR SPRAY

™ Trademark, Valvoline or its subsidiaries, registered in various countries
887061

Hazard pictograms



Signal word

: Warning

Hazard statements

: H229
H319
H373

Pressurised container: May burst if heated.
Causes serious eye irritation.
May cause damage to organs (Kidney)
through prolonged or repeated exposure if
swallowed.

Precautionary statements

: P101

If medical advice is needed, have product
container or label at hand.
Keep out of reach of children.

P102

Prevention:

P210

Keep away from heat, hot surfaces, sparks,
open flames and other ignition sources. No
smoking.

P251

Do not pierce or burn, even after use.

P260

Do not breathe spray.

Storage:

P410 + P412

Protect from sunlight. Do not expose to
temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501

Dispose of contents/container in
accordance with local regulation.

Hazardous components which must be listed on the label:

Ethanediol

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.	Classification (REGULATION (EC))	Concentration (%)
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**SAFETY DATA SHEET**

Revision Date: 16.11.2018

Print Date: 16.10.2020

SDS Number: 000000274764

Version: 1.1

Valvoline™ LEAK DETECTOR SPRAY

™ Trademark, Valvoline or its subsidiaries, registered in various countries

887061

	Registration number	No 1272/2008)	
Ethanediol	107-21-1 203-473-3 01-2119456816-28-xxxx	Acute Tox.4; H302 STOT RE2; H373	>= 15,00 - < 25,00
Alcohols, C9-C16, ethoxylated	97043-91-9	Acute Tox.4; H302 Eye Dam.1; H318	>= 1,00 - < 2,50

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.
Do not leave the victim unattended.
- 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 : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
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 : Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

	Page: 4
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Alcohols
Aldehydes
carbon dioxide and carbon monoxide
ethers
toxic fumes

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 : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : 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.

	Page: 5
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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 | : Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Avoid contact with skin and eyes.
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. |
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection. |
| Hygiene measures | : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke. |

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. |
| 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

	Page: 6
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethenediol	107-21-1	TWA	20 ppm 52 mg/m ³	2000/39/EC
		STEL	40 ppm 104 mg/m ³	2000/39/EC
		TWA (Vapour)	20 ppm 52 mg/m ³ Vapour	GB EH40
		TWA (particles)	10 mg/m ³ particles	GB EH40
		STEL (Vapour)	40 ppm 104 mg/m ³ Vapour	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 : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

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
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

Odour : odourless

	Page: 7
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

Odour Threshold : No data available
pH : 7,1 (20 °C)
Melting point/freezing point : No data available
Initial boiling point and boiling range : Not applicable
Flash point : Not applicable
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit / Upper flammability limit : 53 %(V)
Lower explosion limit / Lower flammability limit : 3,2 %(V)
Vapour pressure : 0,1 hPa (20 °C)
Relative vapour density : No data available
Relative density : No data available
Density : 1,02 g/cm³ (20 °C)
Solubility(ies)
Water solubility : immiscible
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : 398 °C
Decomposition temperature : No data available
Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Oxidizing properties : No data available

	Page: 8
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

9.2 Other information

Self-ignition : not auto-flammable

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 : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat

10.5 Incompatible materials

Materials to avoid : Aldehydes
Alkali metals
Alkaline earth metals
Strong acids
strong alkalis
Strong oxidizing agents
Sulphur compounds

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

	Page: 9
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Components:

ETHYLENE GLYCOL:

Acute oral toxicity : LD0 (Human): estimated 1,56 g/kg

Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Acute inhalation toxicity : LC50 (Rat): 10,9 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): 9.530 mg/kg

Acute toxicity (other routes of administration) : LD50 (Rat): 5.010 mg/kg
Application Route: Intraperitoneal

LD50 (Rat): 3.260 mg/kg
Application Route: Intravenous

Components:

Alcohols, C9-C16, ethoxylated:

Acute oral toxicity :
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

ETHYLENE GLYCOL:

Species: Rabbit

Result: No skin irritation

	Page: 10
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

ETHYLENE GLYCOL:

Result: Slight, transient irritation

Alcohols, C9-C16, ethoxylated:

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

ETHYLENE GLYCOL:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

ETHYLENE GLYCOL:

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.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Components:

	Page: 11
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

ETHYLENE GLYCOL:

Exposure routes: Ingestion

Target Organs: Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Ethenediol

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 27.540 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 8.050 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 10.000 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 6.500 - 13.000 mg/l
End point: Growth inhibition
Exposure time: 7 Days

Toxicity to fish (Chronic toxicity) : NOEC: 32.000 mg/l
Exposure time: 7 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 24.000 mg/l
Exposure time: 7 d
Species: Daphnia magna (Water flea)

	Page: 12
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

12.2 Persistence and degradability

Components:

Ethenediol

Biodegradability

: Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 10 d
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Components:

Ethenediol

Bioaccumulation

: Species: Crayfish (Procambarus)
Exposure time: 61 d
Concentration: 1000 mg/l
Bioconcentration factor (BCF): 0,27
Method: Flow through

Partition coefficient: n-octanol/water

: log Pow: -1,36

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: 13
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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, non-flammable

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.2
IATA : 2.2

14.4 Packing group

ADN
Packing group : Not assigned by regulation
Classification Code : 5A
Labels : 2.2
ADR
Packing group : Not assigned by regulation

	Page: 14
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

Classification Code : 5A
Labels : 2.2
Tunnel restriction code : (E)

RID

Packing group : Not assigned by regulation
Classification Code : 5A
Hazard Identification Number : 20
Labels : 2.2

IMDG

Packing group : Not assigned by regulation
Labels : 2.2
EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Non-flammable, non-toxic gas

IATA (Passenger)

Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Non-flammable, non-toxic 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: 15
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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 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.
Not applicable

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

	Page: 16
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory
TCSI	Not in compliance with the inventory
TSCA	Not 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: 16.11.2018

Full text of H-Statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.

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.

	Page: 17
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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

	Page: 18
SAFETY DATA SHEET	Revision Date: 16.11.2018
	Print Date: 16.10.2020
	SDS Number: 000000274764
Valvoline™ LEAK DETECTOR SPRAY ™ Trademark, Valvoline or its subsidiaries, registered in various countries 887061	Version: 1.1

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