		Page: 1
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		


SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
 Trade name : Auto Pride® SAE 80W-90 Gear Oil

Details of the supplier of the safety data sheet Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL SDS@valvoline.com	Emergency telephone number +1-800-VALVOLINE (+1-800-825-8654) Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
 Skin sensitisation : Category 1
 Acute aquatic toxicity : Category 3
 Chronic aquatic toxicity : Category 3

GHS label elements
 Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P333 + P313 If skin irritation or rash occurs: Get medical

SAFETY DATA SHEET

Revision Date: 06/05/2017

Print Date: 3/17/2020

SDS Number: R0091437

Auto Pride® SAE 80W-90 Gear Oil

Version: 4.0

AU7831

advice/ attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification


No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ORGANIC COMPOUND	68937-96-2	3; H316 Skin Sens. 1B; H317 Aquatic Acute 3; H402 Aquatic Chronic 3; H412	>= 1.00 - < 10.00
React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		Flam. Liq. 4; H227 Acute Tox. 4; H302 1; H318 Skin Sens. 1; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 0.10 - < 1.00
AMINE	112-90-3	Acute Tox. 4; H302 1B; H314 1; H318 STOT RE 2; H373 Asp. Tox. 1; H304	>= 0.10 - < 1.00

		Page: 3
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

		Aquatic Acute 1; H400	
		Aquatic Chronic 1; H410	

SECTION 4. 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 : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
Wash contaminated clothing before re-use.
- 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.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Causes mild skin irritation.
May cause an allergic skin reaction.
No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

**SAFETY DATA SHEET**

Revision Date: 06/05/2017

Print Date: 3/17/2020

SDS Number: R0091437

Auto Pride® SAE 80W-90 Gear Oil

Version: 4.0

AU7831

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons
Sulphur oxides
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.


Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
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.
- 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.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

		Page: 5
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

used.
 Container hazardous when empty.
 Avoid exposure - obtain special instructions before use.
 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.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION


Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated middle	64742-47-8	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		TWA (Mist, inhalable)	5 mg/m3 Mist, inhalable	CR OEL
		STEL (Mist)	10 mg/m3 Mist	CR OEL
		TLV-TWA	200 mg/m3	DO OEL

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

Respiratory protection : Respiratory protection is not required under normal conditions

		Page: 6
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

of use.

- Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
- 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.
Discard gloves that show tears, pinholes, or signs of wear.
- Hygiene measures : Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Colour : amber
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : > 218.3 °C (1013.333 hPa)
- Flash point : > 222 °C Method: Cleveland open cup
- Evaporation rate : > 1
Ethyl Ether
- Flammability (solid, gas) : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : < 0.1000000 mmHg
- Relative vapour density : > 1 AIR=1
- Relative density : 0.89 (60.00 °F)

SAFETY DATA SHEET

Revision Date: 06/05/2017

Print Date: 3/17/2020

SDS Number: R0091437

Auto Pride® SAE 80W-90 Gear Oil

Version: 4.0

AU7831

Density : 0.8916 g/cm³ (15.56 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

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

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 146 mm²/s (40 °C)

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide
Sodium oxides**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

Components:**ORGANIC COMPOUND:**Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: Not classified as acutely toxic by ingestion under GHS.

SAFETY DATA SHEET

Revision Date: 06/05/2017

Print Date: 3/17/2020

SDS Number: R0091437

Auto Pride® SAE 80W-90 Gear Oil

Version: 4.0

AU7831

Remarks: No mortality observed at this dose.

Acute dermal toxicity

: LD50 (Rat): > 2,000 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.

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Acute oral toxicity

: LD50 (Rat): ca. 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

AMINE:

Acute oral toxicity

: LD50 (Rat): 1,950 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Not classified based on available information.
Causes mild skin irritation.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:**ORGANIC COMPOUND:**

Result: Mild skin irritation

AMINE:

Result: Corrosive to skin

Serious eye damage/eye irritation

Not classified based on available information.


Product:

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

Remarks: Unlikely to cause eye irritation or injury.

Components:**ORGANIC COMPOUND:**

Result: Slight, transient irritation

		Page: 9
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Result: **Corrosive**

AMINE:

Result: **Corrosive**

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Skin sensitisation: Not classified based on available information.

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

ORGANIC COMPOUND:

Test Type: **Maximisation Test**

Species: **Guinea pig**

Assessment: **The product is a skin sensitiser, sub-category 1B.**

Method: **OECD Test Guideline 406**

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Test Type: **Local lymph node assay**

Species: **Mouse**

Method: **OECD Test Guideline 429**

Result: **May cause sensitisation by skin contact.**

Germ cell mutagenicity

Not classified based on available information.

Components:

ORGANIC COMPOUND:

Genotoxicity in vitro : Test Type: **in vitro assay**
Result: **Positive results were obtained in some in vitro tests.**

Genotoxicity in vivo : Test Type: **Micronucleus test**
Test species: **Mouse**
Cell type: **Bone marrow**
Method: **OECD Test Guideline 474**
Result: **negative**


Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

		Page: 10
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

AMINE:

Target Organs: **Gastro-intestinal system, Liver, Immune system**
 Assessment: **The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.**

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

AMINE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ORGANIC COMPOUND:

Ecotoxicology Assessment

Acute aquatic toxicity : **Harmful to aquatic life.**

Chronic aquatic toxicity : **Harmful to aquatic life with long lasting effects.**

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout)): ca. 24 mg/l**
 Exposure time: 96 h
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 203**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Water flea (Daphnia magna)): ca. 91.4 mg/l**
 Exposure time: 48 h
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 202**

SAFETY DATA SHEET

Revision Date: 06/05/2017

Print Date: 3/17/2020

SDS Number: R0091437

Auto Pride® SAE 80W-90 Gear Oil

Version: 4.0

AU7831

Toxicity to algae : **ErC50 (Pseudokirchneriella subcapitata (green algae)): 15 mg/l**
 End point: **Growth inhibition**
 Exposure time: **96 h**
 Test Type: **static test**
 Method: **OECD Test Guideline 201**

NOEC (Pseudokirchneriella subcapitata (green algae)): 3.3 mg/l
 End point: **Growth inhibition**
 Exposure time: **96 h**
 Test Type: **static test**
 Method: **OECD Test Guideline 201**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC (Water flea (Daphnia magna)): 0.12 mg/l**
 Exposure time: **21 d**
 End point: **Reproduction Test**
 Test Type: **semi-static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 211**

Ecotoxicology Assessment

Acute aquatic toxicity : **Toxic to aquatic life.**

Chronic aquatic toxicity : **Toxic to aquatic life with long lasting effects.**

AMINE:

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 0.11 mg/l**
 Exposure time: **96 h**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Water flea (Daphnia magna)): 0.011 mg/l**
 Exposure time: **48 h**

Toxicity to algae : **EC50 (Desmodesmus subspicatus (green algae)): 0.083 mg/l**
 Exposure time: **72 h**
 Remarks: **Information given is based on data obtained from similar substances.**
NOEC (Pseudokirchneriella subcapitata (green algae)): 0.01 mg/l
 Exposure time: **96 h**

M-Factor (Acute aquatic toxicity) : **10**

M-Factor (Chronic aquatic toxicity) : **10**

No data available

Persistence and degradability

Components:

ORGANIC COMPOUND:

SAFETY DATA SHEET

Revision Date: 06/05/2017

Print Date: 3/17/2020

SDS Number: R0091437

Auto Pride® SAE 80W-90 Gear Oil

Version: 4.0

AU7831

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **13 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301B**

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **7.4 %**
Exposure time: **28 d**
Method: **Modified Sturm Test**

AMINE:

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **44 %**
Exposure time: **28 d**

No data available

Bioaccumulative potential**Components:**

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

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

AMINE:

Bioaccumulation : Species: **Fish**
Bioconcentration factor (BCF): **> 500**

Partition coefficient: n-octanol/water : log Pow: **Estimated > 4**

No data available

Mobility in soil**Components:**

No data available

Other adverse effects


No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

Components:**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

		Page: 13
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

UN_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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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

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

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

Chemical Control Order (CCO) : Not applicable

		Page: 14
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		

Priority Chemical List (PCL) : Not applicable

Hazardous Substance Act B.E. 2535 : Not applicable

Emergency Decree on Controlling the Use of Volatile Substances B.E. 2533 : Not applicable

Other international regulations

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

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

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or 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

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)


SECTION 16. OTHER INFORMATION

Further information

Revision Date: 06/05/2017

Full text of H-Statements

- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H401 Toxic to aquatic life.
- H402 Harmful to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

		Page: 15
SAFETY DATA SHEET		Revision Date: 06/05/2017
		Print Date: 3/17/2020
		SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil		Version: 4.0
AU7831		


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 (1-800-VALVOLINE).

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

	Page: 16
SAFETY DATA SHEET	Revision Date: 06/05/2017
	Print Date: 3/17/2020
	SDS Number: R0091437
Auto Pride® SAE 80W-90 Gear Oil	Version: 4.0
AU7831	

CEATOX

Assistance Center of the Institute of Toxicology

Children's Hospital Clinic, Faculty of Medicine

University of São Paulo.

BR OEL : Occupational Exposure Limit (Brazil)

UY OEL : Occupational Exposure Limit (Uruguay)

PY OEL : Occupational Exposure Limit (Paraguay)