



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : VR1 RACING 15W40

Product code : 691920

### Manufacturer or supplier's details

Company : Valvoline Pte. Ltd.

Address : 8 Jurong Town Hall Road, #30-01  
Singapore 609434  
Singapore

Telephone : 1-800-TEAMVAL (1-800-832-6825)

Emergency telephone number : +1-800-VALVOLINE (+1-800-825-8654), or contact your local emergency telephone number at 995

E-mail address : SDS@valvolineglobal.com

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
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# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED	72623-87-1	>= 30 -< 50
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	>= 1 -< 10
MINERAL OIL	Not Assigned	>= 1 -< 10
BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS	70024-69-0	>= 0.1 -< 1

## 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
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 : No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.  
Treat symptomatically.

## 5. FIREFIGHTING MEASURES

- Hazardous combustion products : carbon dioxide and carbon monoxide
- Specific extinguishing methods : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

## 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED	72623-87-1	PEL (long term) (Mist)	5 mg/m <sup>3</sup>	SG OEL
		PEL (short term) (Mist)	10 mg/m <sup>3</sup>	SG OEL
		TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
MINERAL OIL	Not Assigned	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Eye protection : Safety glasses
- Skin and body protection : Protective suit



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

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Hygiene measures : General industrial hygiene practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 316 °C  
Calculated Phase Transition Liquid/Gas

Flash point : > 199 °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : 7 %(V)  
GLP: Calculated Explosive Limit

Lower explosion limit / Lower flammability limit : 0.9 %(V)  
GLP: Calculated Explosive Limit

Vapour pressure : 0.1333333 hPa (20 °C)  
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.8743 g/cm<sup>3</sup> (15 °C)

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : No data available

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



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s ( 40 °C)

Oxidizing properties : No data available

## 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

Conditions to avoid : excessive heat  
temperatures above 150 degrees F (66 °C)

Incompatible materials : aluminum  
Strong acids  
Strong bases  
Strong oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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: The substance or mixture has no acute inhalation toxicity  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: No mortality observed at this dose.

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Acute oral toxicity : LD50 (Rat): > 15 g/kg



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

### MINERAL OIL:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Acute oral toxicity : LD50 (Rat): > 16,000 mg/kg  
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: The toxicological data has been taken from products of similar composition.

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species : Rabbit  
Result : No skin irritation

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Assessment : Slight, transient irritation  
Result : Slight, transient irritation

### MINERAL OIL:

Assessment : No skin irritation  
Result : No skin irritation

### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Species : Rabbit  
Result : No skin irritation



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

## Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species	:	Rabbit
Result	:	No eye irritation

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Result	:	No eye irritation
Assessment	:	No eye irritation

#### MINERAL OIL:

Result	:	No eye irritation
Assessment	:	No eye irritation

#### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Species	:	Rabbit
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:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

#### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Assessment	:	The product is a skin sensitiser, sub-category 1B.
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## Germ cell mutagenicity

Not classified based on available information.

### Components:

#### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

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

### Carcinogenicity

Not classified based on available information.

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

### Reproductive toxicity

Not classified based on available information.

### 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:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

**No aspiration toxicity classification**

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

**No aspiration toxicity classification**

### Further information

### Product:

Remarks : No data available





# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

#### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Toxicity to fish	: LL50 ( <i>Pimephales promelas</i> (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 ( <i>Daphnia magna</i> (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/aquatic plants	: NOEL ( <i>Pseudokirchneriella subcapitata</i> (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
Toxicity to fish (Chronic toxicity)	: NOELR ( <i>Oncorhynchus mykiss</i> (rainbow trout)): Calculated >= 1,000 mg/l Exposure time: 14 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL ( <i>Daphnia</i> (water flea)): 10 mg/l Exposure time: 21 d Test substance: WAF Method: OECD Test Guideline 211

#### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

Chronic aquatic toxicity : Not classified based on available information.

## DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Aquatic invertebrates): > 10,000 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 10 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Aquatic invertebrates): 10 mg/l

### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

## MINERAL OIL:

### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

## BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 203  
Remarks: The toxicological data has been taken from products of similar composition.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 202  
Remarks: The toxicological data has been taken from products of similar composition.



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

Toxicity to algae/aquatic plants : **NOEC (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l**  
End point: **Growth inhibition**  
Exposure time: **96 h**  
Test Type: **static test**  
Test substance: **WAF**  
Remarks: **The toxicological data has been taken from products of similar composition.**

## Ecotoxicology Assessment

Acute aquatic toxicity : **Not classified based on available information.**  
Chronic aquatic toxicity : **Not classified based on available information.**

## Persistence and degradability

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

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

#### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **8 %**  
Exposure time: **28 d**

## Bioaccumulative potential

### Components:

#### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Partition coefficient: n-octanol/water : log Pow: **Expected > 7**

#### BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., CALCIUM SALTS:

Partition coefficient: n-octanol/water : log Pow: **10.9**

## Mobility in soil

No data available

## Other adverse effects

### Product:



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

Additional ecological information : No data available

### Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

### Components:

#### OCTAMETHYLCYCLOTETRAILOXANE:

20-year global warming potential: 2.66  
100-year global warming potential: 0.739  
500-year global warming potential: 0.211  
Atmospheric lifetime: 0.027 yr  
Radiative efficiency: 0.12 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

#### IATA-DGR

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

#### IMDG-Code



# SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

---

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Special precautions for user**

Not applicable

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.

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## 15. REGULATORY INFORMATION

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

**Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.**

Environmental Protection and Management Act and : Not applicable  
Environmental Protection and Management  
(Hazardous Substances) Regulations

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

TCSI	:	Not in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	Not in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory



## SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

---

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
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	Not in compliance with the inventory

### Inventories

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

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## 16. OTHER INFORMATION

Revision Date : 14.09.2023  
Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
SG OEL : Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.

ACGIH / TWA : 8-hour, time-weighted average  
SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term  
SG OEL / PEL (short term) : Permissible Exposure Level (PEL) Short Term

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable



## SAFETY DATA SHEET

VR1 RACING 15W40

Version: 2.0

Revision Date: 14.09.2023

Print Date: 04/22/2024

---

Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SG / EN

Internal information : 000000137679