



**SAFETY DATA SHEET**  
Valvoline™ 4-STROKE SAE 20W-50  
MOTORCYCLE Oil

Version: 1.5

Revision Date: 01/21/2020

Print Date:  
09/11/2020

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Valvoline™ 4-STROKE SAE 20W-50 MOTORCYCLE Oil

Product code : VV743

**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 (1-800-832-6825)

SDS@valvoline.com

**Emergency telephone number**

1-800-VALVOLINE (1-800-825-8654)

**Regulatory Information Number**

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

**Product Information**

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

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**

| Chemical name                                                | CAS-No.    | Classification                           | Concentration (%)  |
|--------------------------------------------------------------|------------|------------------------------------------|--------------------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC | 64742-54-7 | Not a hazardous<br>substance or mixture. | >=90.00 - <=100.00 |
| Zinc O,O,O',O'-tetrakis(1,3-                                 | 2215-35-2  | Skin Irrit. 2; H315                      | >=1.00 - < 1.50    |



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dimethylbutyl)  
bis(phosphorodithioate

Eye Dam. 1; H318

Actual concentration is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- 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.  
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 : No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.

#### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet



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|                                               |                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------|
| 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                                        |
| Specific extinguishing methods                | :<br><br>Product is compatible with standard fire-fighting agents.          |
| Further information                           | : Standard procedure for chemical fires.                                    |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.            |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|                                                                     |                                                                                                                                                               |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.     |
| Environmental precautions                                           | : Prevent further leakage or spillage if safe to do so.                                                                                                       |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |
| Other information                                                   | : Comply with all applicable federal, state, and local regulations.                                                                                           |

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**SECTION 7. HANDLING AND STORAGE**

|                             |                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling     | : Avoid contact with skin and eyes.<br>Smoking, eating and drinking should be prohibited in the application area.<br>For personal protection see section 8.<br>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.                                                                                                                                                                      |

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**



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| Components                                                   | CAS-No.    | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|--------------------------------------------------------------|------------|----------------------------------|---------------------------------------------------|-----------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC | 64742-54-7 | TWA                              | 5 mg/m3<br>Mist                                   | OSHA Z-1  |
|                                                              |            | TWA                              | 5 mg/m3<br>Inhalable<br>particulate matter        | ACGIH     |
|                                                              |            | TWA                              | 5 mg/m3<br>Mist                                   | OSHA P0   |
|                                                              |            | TWA                              | 5 mg/m3<br>Mist                                   | NIOSH REL |
|                                                              |            | ST                               | 10 mg/m3<br>Mist                                  | NIOSH REL |
|                                                              |            | PEL                              | 5 mg/m3<br>particulate                            | CAL PEL   |

**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

### 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 resistant gloves (consult your safety equipment supplier).  
Wear as appropriate:  
Impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid



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|                                                  |   |                                                                  |
|--------------------------------------------------|---|------------------------------------------------------------------|
| Odour                                            | : | No data available                                                |
| Odour Threshold                                  | : | No data available                                                |
| pH                                               | : | No data available                                                |
| Melting point/freezing point                     | : | No data available                                                |
| Boiling point/boiling range                      | : | No data available                                                |
| Flash point                                      | : | 394 - 480 °F / 201 - 249 °C<br>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 | : | 6 %(V)<br>Calculated Explosive Limit                             |
| Lower explosion limit / Lower flammability limit | : | 1 %(V)<br>Calculated Explosive Limit                             |
| Vapour pressure                                  | : | 0.0133333 hPa (70.00 °F / 21.11 °C)<br>Calculated Vapor Pressure |
| Relative vapour density                          | : | No data available                                                |
| Relative density                                 | : | No data available                                                |
| Density                                          | : | 0.8816 g/cm3 (60.01 °F / 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                                                |
| Decomposition temperature                        | : | No data available                                                |
| Viscosity                                        |   |                                                                  |
| Viscosity, dynamic                               | : | No data available                                                |
| Viscosity, kinematic                             | : | 195.80 mm2/s (104 °F / 40 °C)                                    |



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Oxidizing properties : No data available

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**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 : Acids  
Strong oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

Inhalation  
Skin contact  
Eye Contact  
Ingestion

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:**

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

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

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

**Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate):**

Acute oral toxicity : LD50 (Rat): 2,230 mg/kg  
GLP: no

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Not classified as acutely toxic by inhalation under GHS.



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

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg  
Method: OECD Test Guideline 402  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

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

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

**Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Irritating to skin.  
GLP : yes

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result : No eye irritation

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

**Components:**

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

Result : No eye irritation  
Assessment : No eye irritation

**Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate):**

Result : Corrosive

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate):**

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : yes



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**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate:**

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:**

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

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

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**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:**

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

No aspiration toxicity classification

**Further information**

**Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Not classified based on available information.



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Long-term (chronic) aquatic hazard : Not classified based on available information.

**Components:**

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 : 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  
Short-term (acute) aquatic hazard : Not classified based on available information.

Long-term (chronic) aquatic hazard : Not classified based on available information.

Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate):

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 23 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : NOEL (Desmodesmus subspicatus (green algae)): 10 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 201  
Remarks: Information given is based on data obtained from similar substances.



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.4 mg/l  
Exposure time: 21 d  
Test substance: WAF  
Method: OECD Test Guideline 211  
Remarks: Information given is based on data obtained from similar substances.

**Persistence and degradability**

**Components:**

Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Information given is based on data obtained from similar substances.

No data available

**Bioaccumulative potential**

**Components:**

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

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

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Remarks

Additional ecological information : No data available

**Components:**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and federal regulations.



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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.  
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.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

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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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.



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**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Zinc O,O,O',O'- 2215-35-2  $\geq 1 - < 5 \%$   
tetrakis(1,3-  
dimethylbutyl)  
bis(phosphorodit  
hioate

4259-15-8 Not  $\geq 0.1 - < 1 \%$   
Assigned

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Zinc O,O,O',O'- 2215-35-2  $\geq 1 - < 5 \%$   
tetrakis(1,3-  
dimethylbutyl)  
bis(phosphorodithioate

This product does not contain any priority pollutants related to the U.S. Clean Water Act

**California Prop. 65**

 **WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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 : Contact your sales representative for additional information.

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



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IECSC : q (quantity restricted)

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

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

TSCA : On TSCA Inventory

## TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

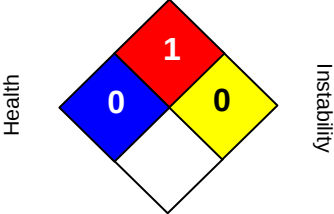
## Inventories

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

Internal information : R0369825

| NFPA:                                                                                                                                                          | HMIS III:                                                                                                                                                                                                                            |        |   |              |   |                 |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|--------------|---|-----------------|---|
| <p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard</p>  | <table><tr><td>HEALTH</td><td>0</td></tr><tr><td>FLAMMABILITY</td><td>1</td></tr><tr><td>PHYSICAL HAZARD</td><td>0</td></tr></table> <p>0 = not significant, 1 = Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | HEALTH | 0 | FLAMMABILITY | 1 | PHYSICAL HAZARD | 0 |
| HEALTH                                                                                                                                                         | 0                                                                                                                                                                                                                                    |        |   |              |   |                 |   |
| FLAMMABILITY                                                                                                                                                   | 1                                                                                                                                                                                                                                    |        |   |              |   |                 |   |
| PHYSICAL HAZARD                                                                                                                                                | 0                                                                                                                                                                                                                                    |        |   |              |   |                 |   |

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Sources of key data used to compile the Safety Data Sheet



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Valvoline internal data including own and sponsored test reports  
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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).

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

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System



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NFPA : National Fire Protection Association  
NIOSH : National Institute for Occupational Safety and Health  
OSHA : Occupational Safety and Health Administration  
PMRA : Health Canada Pest Management Regulatory Agency  
RTK : Right to Know  
WHMIS : Workplace Hazardous Materials Information System