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| SAFETY DATA SHEET | Revision Date: 09/07/2018 |
| | Print Date: 3/28/2019 |
| | SDS Number: R0076416 |
| Valvoline™ 629 SPECIAL MOLY GREASE 3018 | Version: 1.3 |

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ 629 SPECIAL MOLY GREASE

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

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:
72.4997 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Classification | Concentration (%) |
|--|------------|---|-------------------|
| RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED | 64742-01-4 | This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012). | >=50.00 - < 60.00 |

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|---|------------|---|-------------------|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | Not a hazardous substance or mixture. | >=50.00 - < 60.00 |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT | 64742-52-5 | This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012). | >=5.00 - < 10.00 |
| MOLYBDENUM DISULFIDE | 1317-33-5 | This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012). | >=1.50 - < 5.00 |

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 : 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 : Remove contact lenses.
Protect unharmed eye.
- 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 : Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally,

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persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)

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 (CO₂)

Dry chemical

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

Aldehydes

Ketones

Nitrogen oxides (NO_x)

Sulphur oxides

Specific extinguishing methods :

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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- 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).
Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
- Materials to avoid : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|------------|----------------------------------|---|-----------|
| RESIDUAL OILS (PETROLEUM), SOLVENT- REFINED | 64742-01-4 | ST ESL | 1,000 µg/m ³ | TX ESL |
| | | AN ESL | 100 µg/m ³ | TX ESL |
| Distillates (petroleum), solvent- dewaxed heavy paraffinic | 64742-65-0 | TWA | 5 mg/m ³ Mist | OSHA Z-1 |
| | | TWA | 5 mg/m ³ Inhalable fraction | ACGIH |
| | | TWA | 5 mg/m ³ Mist | OSHA P0 |
| | | TWA | 5 mg/m ³ Mist | NIOSH REL |
| | | ST | 10 mg/m ³ Mist | NIOSH REL |
| | | PEL | 5 mg/m ³ particulate | CAL PEL |
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT | 64742-52-5 | TWA | 5 mg/m ³ Mist | OSHA Z-1 |
| | | TWA | 5 mg/m ³ Inhalable fraction | ACGIH |
| | | TWA | 5 mg/m ³ Mist | OSHA P0 |

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| | | | | |
|----------------------|-----------|-----|--|-----------|
| | | TWA | 5 mg/m3 Mist | NIOSH REL |
| | | ST | 10 mg/m3 Mist | NIOSH REL |
| | | PEL | 5 mg/m3 particulate | CAL PEL |
| MOLYBDENUM DISULFIDE | 1317-33-5 | TWA | 15 mg/m3 total dust (Molybdenum) | OSHA Z-1 |
| | | TWA | 10 mg/m3 Inhalable fraction (Molybdenum) | ACGIH |
| | | TWA | 3 mg/m3 Respirable fraction (Molybdenum) | ACGIH |
| | | TWA | 10 mg/m3 Total dust (Molybdenum) | OSHA P0 |
| | | PEL | 10 mg/m3 Total dust (Molybdenum) | CAL PEL |
| | | PEL | 3 mg/m3 respirable dust fraction (Molybdenum) | CAL PEL |

Engineering measures

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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

: No personal respiratory protective equipment normally required.

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:
Safety shoes
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

: General industrial hygiene practice.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|----------------------------------|
| Appearance | : paste |
| Physical state | : liquid |
| Colour | : grey |
| Odour | : hydrocarbon-like |
| Odour Threshold | : No data available |
| pH | : No data available |
| Melting point/freezing point | : No data available |
| Boiling point/boiling range | : 640 °F / 338 °C |
| Flash point | : 500 °F / 260 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density | : No data available |
| Relative density | : No data available |
| Density | : 0.94 g/cm ³ (20 °C) |
| Solubility(ies) | |
| Water solubility | : negligible |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |

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Auto-ignition temperature : > 315 °C

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 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
Hydrocarbons

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 : LD50 (Rat): 6,477 mg/kg
Method: Acute toxicity estimate

Acute dermal toxicity : LD50 (Rabbit): 169,492 mg/kg
Method: Acute toxicity estimate

Components:**RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:**

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

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

- Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Not classified as acutely toxic by inhalation under GHS.
Remarks: No mortality observed at this dose.
- Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

- Acute oral toxicity : LD50 (Rat): > 5 g/kg
- Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Not classified as acutely toxic by inhalation under GHS.
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.
Remarks: No mortality observed at this dose.

MOLYBDENUM DISULFIDE:

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 2.82 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Skin corrosion/irritation

Not classified based on available information.

Components:
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

- Species : Rabbit
- Result : No skin irritation

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Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Result : Slight, transient irritation

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

Species : Rabbit

Result : No skin irritation

MOLYBDENUM DISULFIDE:

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : Unlikely to cause eye irritation or injury.

Components:
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

Species : Rabbit

Result : Slight, transient irritation

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Result : Slight, transient irritation

Assessment : Slight, transient irritation

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

Species : Rabbit

Result : Slight, transient irritation

MOLYBDENUM DISULFIDE:

Result : No eye irritation

Respiratory or skin sensitisation
Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

Test Type : Buehler Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Test Type : Buehler Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

Species : Guinea pig

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Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:**RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:**

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.

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.

Product:

No aspiration toxicity classification

Components:**RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:**

No aspiration toxicity classification

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

No aspiration toxicity classification

Further information**Product:**

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

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Ecotoxicology Assessment

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

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

Components:
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Scud (Gammarus pulex)): > 10,000 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 201

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: WAF

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (algae)): >= 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 201

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

Persistence and degradability
Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 2 - 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Information given is based on data obtained from similar substances.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Biodegradability : Result: Inherently biodegradable
Method: OECD Test Guideline 301F

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

Biodegradability : Result: Inherently biodegradable
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

No data available

Bioaccumulative potential
Components:

No data available

Mobility in soil
Components:

No data available

Other adverse effects

No data available

Product:

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Additional ecological information : No data available

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

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

Contaminated packaging : Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION**International transport regulations****REGULATION**

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

U.S. DOT - ROAD

| |
|---------------------|
| Not dangerous goods |
|---------------------|

CFR_RAIL_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

U.S. DOT - INLAND WATERWAYS

| |
|---------------------|
| Not dangerous goods |
|---------------------|

TDG_ROAD_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

TDG_RAIL_C


| |
|---------------------|
| Not dangerous goods |
|---------------------|

TDG_INWT_C

| |
|---------------------|
| Not dangerous goods |
|---------------------|

INTERNATIONAL MARITIME DANGEROUS GOODS

| |
|---------------------|
| Not dangerous goods |
|---------------------|

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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

| |
|---------------------|
| Not dangerous goods |
| |

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

| |
|---------------------|
| Not dangerous goods |
| |

MX_DG

| |
|---------------------|
| Not dangerous goods |
| |

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

| | |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

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

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 311/312 Hazards : No SARA Hazards

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 : Not 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



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IECSC : 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.

SECTION 16. OTHER INFORMATION

Further information

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| NFPA: | HMIS III: | | | | | | |
|---|--|---------------|----------|---------------------|----------|------------------------|----------|
| <p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p> | <table border="1"> <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, 2 = Moderate, 3 = High 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

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.

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).

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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

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