



**SAFETY DATA SHEET**  
Valvoline Professional Series SUPER  
CONCENTRATED FUEL INJECTOR CLEANER

Version: 1.1

Revision Date: 05/12/2021

Print Date:  
05/12/2021

GHS classification in accordance with the Hazardous Products Regulations

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Valvoline Professional Series SUPER CONCENTRATED  
FUEL INJECTOR  
CLEANER

Product code : 679710

**Details of the supplier of the safety data sheet**

Valvoline Canada Corp  
905 Winston Churchill Blvd  
Mississauga ON L5J 4P2  
Canada  
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**

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity (Inhalation) : Category 2

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

Aspiration hazard : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger



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- Hazard statements** : H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer if inhaled.
- Precautionary statements** : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.



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P405 Store locked up.

**Disposal:**

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

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	64742-48-9	Flam. Liq. 3; H226  Skin Irrit. 2; H315  Eye Irrit. 2A; H319  STOT SE 3; H335  Asp. Tox. 1; H304  PHNOC 1;	>=70.00 - < 90.00
DISTILLATES, SWEETENED MIDDLE	64741-86-2	Flam. Liq. 3; H226  Eye Irrit. 2A; H319  Asp. Tox. 1; H304  PHNOC 1;	>=1.00 - < 5.00
PETROLEUM NAPHTHA	64742-94-5	Flam. Liq. 4; H227  Skin Irrit. 2; H315  Eye Irrit. 2A; H319  Asp. Tox. 1; H304  PHNOC 1;	>=1.00 - < 5.00
NAPHTHALENE	91-20-3	Acute Tox. 4; H302  Carc. 2; H351	>=0.10 - < 1.00



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**SECTION 4. FIRST AID MEASURES**

General advice	: Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	: Move to 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. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
If swallowed	: Obtain medical attention. Do NOT induce vomiting. 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, 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) May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer if inhaled.
Notes to physician	: No hazards which require special first aid measures.



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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon  
carbon dioxide and carbon monoxide  
Aldehydes
- Specific extinguishing methods :
- Further information : Product is compatible with standard fire-fighting agents.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.
- 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 : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- 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 : Contain spillage, and then collect with non-combustible



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- containment and cleaning up      absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information      : Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling      : Open drum carefully as content may be under pressure. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. 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. Observe label precautions. No smoking.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	64742-48-9	TWA	100 ppm	SUPLR EXP
PETROLEUM NAPHTHA	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
NAPHTHALENE	91-20-3	TWA	10 ppm 52 mg/m3	CA AB OEL
		STEL	15 ppm 79 mg/m3	CA AB OEL



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		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm 52 mg/m <sup>3</sup>	CA QC OEL
		STEV	15 ppm 79 mg/m <sup>3</sup>	CA QC 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** : In the case of vapour formation use a respirator with an approved filter.  
A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**

**Remarks**

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**

: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection**

: Wear as appropriate:  
Impervious clothing  
Safety shoes  
Flame-resistant clothing  
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.  
Wear resistant gloves (consult your safety equipment supplier).

**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

**Odour** : No data available

**Odour Threshold** : No data available

**pH** : No data available



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Melting point/freezing point	:	No data available
Boiling point/boiling range	:	185 °C Calculated Phase Transition Liquid/Gas
Flash point	:	42.2 °C  Calculated Flash Point
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	1.131 hPa Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.797 g/cm <sup>3</sup> (20 °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	:	No data available
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.



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Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks. excessive heat
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	Aldehydes carbon dioxide and carbon monoxide

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

### Components:

#### **DISTILLATES, SWEETENED MIDDLE:**

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

#### **NAPHTHALENE:**

Acute oral toxicity : LD50 (Mouse, male): 533 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 2.0 g/kg  
  
LD50 (Rat, male and female): > 2,500 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Acute toxicity (other routes of administration) : LD50 (Mouse, female): 710 mg/kg  
Application Route: oral (gavage)

LD50 (Mouse): 150 mg/kg  
Application Route: Intraperitoneal

LD50 (Mouse, male): 533 mg/kg  
Application Route: oral (gavage)

### **Skin corrosion/irritation**

Causes skin irritation.



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**Product:**

Remarks : May cause skin irritation and/or dermatitis.

Result : Repeated exposure may cause skin dryness or cracking.

**Components:**

**NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:**

Assessment : Irritating to skin.

Result : Irritating to skin.

**DISTILLATES, SWEETENED MIDDLE:**

Result : Slight, transient irritation

**PETROLEUM NAPHTHA:**

Result : Irritating to skin.

**NAPHTHALENE:**

Result : Slight, transient irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

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

**Components:**

**NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:**

Result : Irritating to eyes.

Assessment : Irritating to eyes.

**DISTILLATES, SWEETENED MIDDLE:**

Result : Irritating to eyes.

**PETROLEUM NAPHTHA:**

Result : Irritating to eyes.

**NAPHTHALENE:**

Result : Slight, transient irritation

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Suspected of causing cancer if inhaled.



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**Components:**

**NAPHTHALENE:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in inhalation studies with animals.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause respiratory irritation.

**Components:**

**NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:**

Assessment : May cause respiratory irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:**

May be fatal if swallowed and enters airways.

**DISTILLATES, SWEETENED MIDDLE:**

May be fatal if swallowed and enters airways.

**PETROLEUM NAPHTHA:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks : Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

**Components:**

**PETROLEUM NAPHTHA:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

**NAPHTHALENE:**



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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.91 - 2.82 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.09 - 3.4 mg/l  
Exposure time: 48 h  
Test Type: static test

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 1; Very toxic to aquatic life.  
Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:

Biodegradability : Remarks: Not readily biodegradable.

NAPHTHALENE:

Biodegradability : Result: Not readily biodegradable.

No data available

**Bioaccumulative potential**

NAPHTHALENE:

Partition coefficient: n-octanol/water : log Pow: 3.30

No data available

**Mobility in soil**

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.

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**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.  
Dispose of in accordance with all applicable local, state and federal regulations.

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.



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Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(HYDROTREATED HEAVY NAPHTHA)  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

#### IMDG-Code

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(HYDROTREATED HEAVY NAPHTHA)  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

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

Not applicable for product as supplied.

### National Regulations

#### TDG

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
( )  
Class : 3  
Packing group : III  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



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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

### 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
IECSC	: On the inventory, or in compliance with the inventory
TSCA	: On TSCA Inventory

### Inventories

AICS (Australia), AIIC (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 : 000000130060

NFPA:

HMIS III:



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**NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class II

**Full text of H-Statements**

H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer if inhaled.

**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).

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



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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



## SAFETY DATA SHEET

Valvoline Professional Series™ Intake Cleaner

Version: 1.2

Revision Date: 11/10/2020

Print Date:  
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GHS classification in accordance with the Hazardous Products Regulations

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Trade name : Valvoline Professional Series™ Intake Cleaner  
Product code : VP069

**Details of the supplier of the safety data sheet**

Valvoline Canada Corp  
905 Winston Churchill Blvd  
Mississauga ON L5J 4P2  
Canada  
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**

Flammable liquids : Category 2  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Reproductive toxicity : Category 1B  
Specific target organ toxicity - single exposure : Category 3 (Central nervous system, Respiratory system)  
Specific target organ toxicity - repeated exposure : Category 2 (Auditory system)  
Aspiration hazard : Category 1  
Physical hazards not otherwise classified : Category 1

**GHS label elements**



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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H373 May cause damage to organs (Auditory system) through prolonged or repeated exposure.  
H360 May damage fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H335 May cause respiratory irritation.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
May become electrostatically charged. Sparks may ignite liquid and vapor.  
H225 Highly flammable liquid and vapour.

Precautionary statements

: **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P264 Wash skin thoroughly after handling.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P243 Take action to prevent static discharges.  
P242 Use non-sparking tools.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P240 Ground and bond container and receiving equipment.  
P233 Keep container tightly closed.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P202 Do not handle until all safety precautions have been read and understood.  
P201 Obtain special instructions before use.  
**Response:**  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

**Storage:**

P405 Store locked up.

P403 + P235 Store in a well-ventilated place. Keep cool.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

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

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Static Accumulator  
Chemical nature : Defatter

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
XYLENE	1330-20-7	Flam. Liq. 3; H226  Acute Tox. 4; H312  Skin Irrit. 2; H315  Eye Irrit. 2A; H319  STOT SE 3; H335, H336  Asp. Tox. 1; H304  PHNOC 1;	>=30.00 - < 60.00
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	Flam. Liq. 2; H225  STOT SE 3; H336  Asp. Tox. 1; H304  PHNOC 1;	>=10.00 - < 30.00



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Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		Flam. Liq. 4; H227 Asp. Tox. 1; H304	>=10.00 - < 30.00
METHYL-N 2-PYRROLIDONE	872-50-4	Flam. Liq. 4; H227 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Repr. 1B; H360 STOT SE 3; H335	>=10.00 - < 30.00
POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15 ALKYL ETHERS		Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>=5.00 - < 10.00
ETHYL BENZENE	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT RE 2; H373 Asp. Tox. 1; H304 PHNOC 1;	>=5.00 - < 10.00
Distillates (petroleum), hydrotreated middle	64742-46-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Asp. Tox. 1; H304	>=5.00 - < 10.00
Poly[oxy(1,2-propanediyl)].alpha.-propyl-.omega.-hydroxy-C12-15 alkyl ethers		Acute Tox. 4; H302 Skin Irrit. 2; H315	>=0.10 - < 1.00



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		Eye Dam. 1; H318	
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	Flam. Liq. 4; H227 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	>=0.10 - < 1.00

Actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.  
Show this safety data sheet to the doctor in attendance.  
Consult a physician.
- If inhaled : Move out of dangerous area.  
Move to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Consult a physician after significant exposure.  
Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If on clothes, remove clothes.
- In case of eye contact : Protect unharmed eye.  
Remove contact lenses.  
Continue rinsing eyes during transport to hospital.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
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.  
May cause damage to organs through prolonged or repeated exposure.  
May damage fertility or the unborn child.



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Notes to physician : May cause drowsiness or dizziness.  
May cause respiratory irritation.  
Causes serious eye irritation.  
Causes skin irritation.  
May be fatal if swallowed and enters airways.  
: 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  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
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 :

Further information : Product is compatible with standard fire-fighting agents.  
: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

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 : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
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 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information : Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Open drum carefully as content may be under pressure.  
Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
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.  
Container may be opened only under exhaust ventilation hood.
- 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.  
Observe label precautions.  
No smoking.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
XYLENE	1330-20-7	STEL	150 ppm	CA AB OEL



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			651 mg/m3	
		TWA	100 ppm 434 mg/m3	CA AB OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL
		STEV	150 ppm 651 mg/m3	CA QC OEL
		TWA	100 ppm	CA BC OEL
		STEL	150 ppm	CA BC OEL
METHYL-N 2-PYRROLIDONE	872-50-4	TWA	400 mg/m3	CA ON OEL
ETHYL BENZENE	100-41-4	TWA	100 ppm 434 mg/m3	CA AB OEL
		STEL	125 ppm 543 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		STEV	125 ppm 543 mg/m3	CA QC OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	TWA	20 ppm 97 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWAEV	20 ppm 97 mg/m3	CA QC 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** : In the case of vapour formation use a respirator with an approved filter.  
A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.  
No personal respiratory protective equipment normally required.

**Hand protection**

**Remarks**

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**

: Maintain eye wash station in immediate work area.  
Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or



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Skin and body protection	: mist. Wear as appropriate: Impervious clothing Safety shoes Flame-resistant clothing 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. Wear resistant gloves (consult your safety equipment supplier).
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
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 137 °C Calculated Phase Transition Liquid/Gas
Flash point	: 9.4 °C  Method: Tag closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: Static-accumulating flammable liquid.
Self-ignition	: No data available
Upper explosion limit / Upper flammability limit	: 24.6 %(V) GLP: Calculated Explosive Limit
Lower explosion limit / Lower flammability limit	: 0.9 %(V) GLP: Calculated Explosive Limit
Vapour pressure	: 60 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: No data available



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Relative density	:	No data available
Density	:	0.853 g/cm <sup>3</sup> (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	:	No data available
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	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks. Exposure to light. Exposure to moisture Do not allow evaporation to dryness. excessive heat
Incompatible materials	:	Strong oxidizing agents Strong bases strong alkalis Strong acids Reducing agents perchloric acid Nitric acid fluorides alkalis
Hazardous decomposition products	:	No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION



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### 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: 2,472 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 4,478 mg/kg  
Method: Calculation method

### Components:

#### XYLENE:

Acute oral toxicity : LD50 (Rat): 3,523 - 8,600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29 mg/l, 6700 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 1,700 mg/kg

#### SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Acute oral toxicity : LD50 (Rat): > 8,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

#### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

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

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

#### METHYL-N 2-PYRROLIDONE:

Acute oral toxicity : LD50 (Rat): 4,150 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): 8,000 mg/kg



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### **POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA-HYDROXY-, C12-C15 ALKYL ETHERS:**

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

### **ETHYL BENZENE:**

Acute oral toxicity : LD50 (Rat): ca. 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 17,800 mg/kg

### **Distillates (petroleum), hydrotreated middle:**

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

Acute inhalation toxicity : LC50: estimated 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

### **Poly[oxy(1,2-propanediyl)].alpha.-propyl-.omega.-hydroxy-C12-15 alkyl ethers:**

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

### **ETHYLENE GLYCOL MONOBUTYL ETHER:**

Acute oral toxicity : LD50 (Guinea pig): 1,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2.17 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD50 (Rabbit): 400 - 500 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Result : Repeated exposure may cause skin dryness or cracking.

Remarks : May cause skin irritation and/or dermatitis.

### **Components:**

#### **XYLENE:**

Assessment : Irritating to skin.

Result : Irritating to skin.

### **SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:**

Result : Slight, transient irritation



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**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Result : No skin irritation

**METHYL-N 2-PYRROLIDONE:**

Assessment : Irritating to skin.

Result : irritating

**POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15 ALKYL ETHERS:**

Result : Irritating to skin.

**ETHYL BENZENE:**

Result : Irritating to skin.

**Distillates (petroleum), hydrotreated middle:**

Result : Irritating to skin.

**Poly[oxy(1,2-propanediyl)].alpha.-propyl.-omega.-hydroxy-C12-15 alkyl ethers:**

Result : Irritating to skin.

**ETHYLENE GLYCOL MONOBUTYL ETHER:**

Species : Rabbit

Result : Irritating to skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**XYLENE:**

Result : Irritating to eyes.

**SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:**

Result : Slight, transient irritation

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Result : Slight, transient irritation

**METHYL-N 2-PYRROLIDONE:**

Result : Irritation to eyes, reversing after 7 to 21 days

Assessment : Irritating to eyes.

**POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15 ALKYL ETHERS:**

Result : Risk of serious damage to eyes.

**ETHYL BENZENE:**

Result : Irritating to eyes.



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### **Poly[oxy(1,2-propanediyl)].alpha.-propyl-.omega.-hydroxy-C12-15 alkyl ethers:**

Result : Risk of serious damage to eyes.

### **ETHYLENE GLYCOL MONOBUTYL ETHER:**

Species : Rabbit  
Result : Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### **Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406

### **METHYL-N 2-PYRROLIDONE:**

Assessment : Does not cause skin sensitisation.  
Result : Did not cause sensitisation on laboratory animals.

### **POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15 ALKYL ETHERS:**

Assessment : Does not cause skin sensitisation.

### **Poly[oxy(1,2-propanediyl)].alpha.-propyl-.omega.-hydroxy-C12-15 alkyl ethers:**

Assessment : Does not cause skin sensitisation.

### **ETHYLENE GLYCOL MONOBUTYL ETHER:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

#### **METHYL-N 2-PYRROLIDONE:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Result: negative

Test Type: chromosome aberration assay  
Species: Chinese hamster  
Application Route: Oral  
Result: negative

### **ETHYLENE GLYCOL MONOBUTYL ETHER:**



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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:

##### **METHYL-N 2-PYRROLIDONE:**

Species : Rat  
Application Route : Oral  
NOAEL : 678 mg/kg body weight

Species : Rat  
Application Route : inhalation (dust/mist/fume)  
NOAEL : 0.4 mg/l

### Reproductive toxicity

May damage fertility or the unborn child.

#### Components:

##### **METHYL-N 2-PYRROLIDONE:**

Effects on fertility : Species: Rat  
Application Route: Ingestion  
Fertility: NOAEL Parent: 350  
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Dose: 0,12, 0,25, 0,49 milligram per liter  
General Toxicity Maternal: NOAEC: 123 mg/m<sup>3</sup>  
Teratogenicity: NOAEC F1: 494 mg/m<sup>3</sup>  
Developmental Toxicity: NOAEC: 247 mg/m<sup>3</sup>

Species: Rat  
Application Route: Oral  
Dose: 0, 125, 250, 500, 750 milligram per kilogram  
General Toxicity Maternal: NOAEL: 250 mg/kg body weight  
Developmental Toxicity: NOAEL F1: 125 mg/kg body weight

Species: Rat  
Application Route: Dermal  
Dose: 0, 75, 237, 750 milligram per kilogram  
General Toxicity Maternal: NOAEL: 237 mg/kg body weight  
Teratogenicity: NOAEL F1: 237 mg/kg body weight  
Developmental Toxicity: NOAEL F1: 237 mg/kg body weight

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments



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### STOT - single exposure

May cause drowsiness or dizziness.

May cause respiratory irritation.

#### Components:

##### **XYLENE:**

Assessment : May cause respiratory irritation.

Assessment : May cause drowsiness or dizziness.

### **SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

### **METHYL-N 2-PYRROLIDONE:**

Exposure routes : Inhalation

Target Organs : Nose

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

May cause damage to organs (Auditory system) through prolonged or repeated exposure.

#### Components:

##### **ETHYL BENZENE:**

Target Organs : Auditory system

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

### Repeated dose toxicity

#### Components:

##### **METHYL-N 2-PYRROLIDONE:**

Species : Rat  
NOAEL : 169 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d

Species : Rat  
NOAEL : 0.5 mg/l  
Application Route : Inhalation  
Test atmosphere : dust/mist  
Exposure time : 28 d

Species : Rabbit  
NOAEL : 826 mg/kg  
Application Route : Skin contact  
Exposure time : 28 d

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Components:

##### **XYLENE:**

May be fatal if swallowed and enters airways.



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### **SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:**

May be fatal if swallowed and enters airways.

### **Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

May be fatal if swallowed and enters airways.

### **ETHYL BENZENE:**

May be fatal if swallowed and enters airways.

### **Distillates (petroleum), hydrotreated middle:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

#### **Components:**

#### **ETHYL BENZENE:**

Remarks : Central nervous system

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## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Product:**

#### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

#### **Components:**

#### **XYLENE:**

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 - < 1,000 mg/l  
Exposure time: 24 h  
Test Type: static test

### **SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:**

#### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

### **Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h



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- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h
- Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h
- METHYL-N 2-PYRROLIDONE:  
Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 832 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 24 h
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 600 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition
- NOEC (Desmodesmus subspicatus (green algae)): 125 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 12.5 mg/l  
Exposure time: 21 d  
End point: Reproduction Test  
Test Type: semi-static test  
Method: OECD Test Guideline 211
- Toxicity to bacteria : EC10 (activated sludge): 100 mg/l
- POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA, -HYDROXY-, C12-C15 ALKYL ETHERS:  
Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Very toxic to aquatic life.  
Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.
- ETHYL BENZENE:  
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.1 - 15.6 mg/l  
Exposure time: 96 h  
Test Type: static test
- LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l  
Exposure time: 96 h  
Test Type: Renewal
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.37 - 4.4 mg/l  
Exposure time: 48 h  
Test Type: static test



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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l  
End point: Growth inhibition  
Exposure time: 96 h

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

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

Distillates (petroleum), hydrotreated middle:

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Poly[oxy(1,2-propanediyl)].alpha.-propyl.-omega.-hydroxy-C12-15 alkyl ethers:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

### ETHYLENE GLYCOL MONOBUTYL ETHER:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,550 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 204

### **Persistence and degradability Components:**



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### XYLENE:

Physico-chemical  
removability : Remarks: The product evaporates readily.

### METHYL-N 2-PYRROLIDONE:

Biodegradability : Biodegradation: 73 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
Remarks: Readily biodegradable

Photodegradation :

### ETHYL BENZENE:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 70 - 80 %  
Exposure time: 28 d

### ETHYLENE GLYCOL MONOBUTYL ETHER:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90.4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

No data available

### Bioaccumulative potential

#### Components:

##### XYLENE:

Partition coefficient: n-  
octanol/water : log Pow: 3.16

##### METHYL-N 2-PYRROLIDONE:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 3).

Partition coefficient: n-  
octanol/water : log Pow: -0.46 (25 °C)

##### ETHYL BENZENE:

Partition coefficient: n-  
octanol/water : log Pow: 3.15

##### ETHYLENE GLYCOL MONOBUTYL ETHER:

Partition coefficient: n-  
octanol/water : log Pow: 0.83

No data available

### Mobility in soil

#### Components:

No data available

### Other adverse effects

#### Product:

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

#### Components:

##### METHYL-N 2-PYRROLIDONE:

Results of PBT and vPvB : This substance is not considered to be persistent,



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assessment

bioaccumulating and toxic (PBT). This substance is considered to be very persistent and very bioaccumulating (vPvB).

### 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.  
Dispose of in accordance with all applicable local, state and federal regulations.

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.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(, XYLENE)  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353  
Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(, XYLENE, ALIPHATIC PETROLEUM NAPHTHA, POLYETHER AMINE)  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : yes



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

Not applicable for product as supplied.

### National Regulations

#### TDG

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(, )  
Class : 3  
Packing group : II  
Labels : 3  
ERG Code : 128  
Marine pollutant : yes

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

**NPRI Components** : XYLENE  
METHYL-N 2-PYRROLIDONE  
ETHYL BENZENE  
ETHYLENE GLYCOL MONOBUTYL ETHER  
NAPHTHALENE  
TOLUENE  
BENZENE

### 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  
IECSC : On the inventory, or in compliance with the inventory  
TCSI : Not in compliance with the inventory



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TSCA : On TSCA Inventory

## Inventories

AICS (Australia), AIIIC (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 : R0356736

NFPA:	HMIS III:

### NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

### Full text of H-Statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.



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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).

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



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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



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GHS classification in accordance with the Hazardous Products Regulations

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Valvoline Professional Series THROTTLE BODY SPRAY  
Throttle Body Cleaner

Product code : VP072

### Details of the supplier of the safety data sheet

Valvoline Canada Corp  
905 Winston Churchill Blvd  
Mississauga ON L5J 4P2  
Canada  
1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

### Emergency telephone number

1-800-VALVOLUME (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

Flammable aerosols : Category 1

Eye irritation : Category 2A

Specific target organ toxicity  
- single exposure : Category 1 (Central nervous system, Eyes)

Specific target organ toxicity  
- single exposure : Category 3 (Central nervous system)

Specific target organ toxicity  
- repeated exposure : Category 2 (Auditory system)

### GHS label elements

Hazard pictograms :



Signal word : Danger



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- Hazard statements** : H222 Extremely flammable aerosol.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H370 Causes damage to organs (Central nervous system, Eyes).  
H373 May cause damage to organs (Auditory system) through prolonged or repeated exposure.
- Precautionary statements** : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection/ face protection.  
**Response:**  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- Substance / Mixture : Mixture  
Chemical nature : Aspiration hazard  
Chemical nature : Static Accumulator  
Chemical nature : Defatter

**Hazardous components**



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Chemical name	CAS-No.	Classification	Concentration (%)
ACETONE	67-64-1	Flam. Liq. 2; H225  Eye Irrit. 2A; H319  STOT SE 3; H336	>=70.00 - < 90.00
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280  SA 1;	>=5.00 - < 10.00
XYLENE	1330-20-7	Flam. Liq. 3; H226  Acute Tox. 4; H312  Skin Irrit. 2; H315  Eye Irrit. 2A; H319  STOT SE 3; H335, H336  Asp. Tox. 1; H304  PHNOC 1;	>=5.00 - < 10.00
METHANOL	67-56-1	Flam. Liq. 2; H225  Acute Tox. 3; H301  Acute Tox. 3; H331  Acute Tox. 3; H311  STOT SE 1; H370	>=1.00 - < 5.00
ETHYL BENZENE	100-41-4	Flam. Liq. 2; H225  Acute Tox. 4; H332  Skin Irrit. 2; H315  Eye Irrit. 2A; H319  STOT RE 2; H373  Asp. Tox. 1; H304	>=1.00 - < 5.00



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		PHNOC 1;	
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## SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Move to fresh air. If unconscious, place in recovery position and seek medical advice. Consult a physician after significant exposure.
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	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
If swallowed	: Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.
Notes to physician	: No symptoms known or expected. 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 Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.



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Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Aldehydes

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.

Further information : Use a water spray to cool fully closed containers.

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 : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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.

Other information : Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Open drum carefully as content may be under pressure.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.



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For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.  
Container may be opened only under exhaust ventilation hood.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
No smoking.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ACETONE	67-64-1	TWA	500 ppm 1,200 mg/m <sup>3</sup>	CA AB OEL
		STEL	750 ppm 1,800 mg/m <sup>3</sup>	CA AB OEL
		TWA	250 ppm	CA BC OEL
		STEL	500 ppm	CA BC OEL
		STEV	1,000 ppm 2,380 mg/m <sup>3</sup>	CA QC OEL
		TWAEV	500 ppm 1,190 mg/m <sup>3</sup>	CA QC OEL
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	CA AB OEL
		STEL	30,000 ppm 54,000 mg/m <sup>3</sup>	CA AB OEL
		TWA	5,000 ppm	CA BC OEL
		STEL	15,000 ppm	CA BC OEL
		STEV	30,000 ppm 54,000 mg/m <sup>3</sup>	CA QC OEL
		TWAEV	5,000 ppm 9,000 mg/m <sup>3</sup>	CA QC OEL
XYLENE	1330-20-7	STEL	150 ppm 651 mg/m <sup>3</sup>	CA AB OEL
		TWA	100 ppm 434 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	100 ppm 434 mg/m <sup>3</sup>	CA QC OEL
		STEV	150 ppm	CA QC OEL



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			651 mg/m3	
		TWA	100 ppm	CA BC OEL
		STEL	150 ppm	CA BC OEL
METHANOL	67-56-1	TWA	200 ppm 262 mg/m3	CA AB OEL
		STEL	250 ppm 328 mg/m3	CA AB OEL
		TWA	200 ppm	CA BC OEL
		STEL	250 ppm	CA BC OEL
		TWAEV	200 ppm 262 mg/m3	CA QC OEL
		STEV	250 ppm 328 mg/m3	CA QC OEL
ETHYL BENZENE	100-41-4	TWA	100 ppm 434 mg/m3	CA AB OEL
		STEL	125 ppm 543 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		STEV	125 ppm 543 mg/m3	CA QC OEL
		TWAEV	100 ppm 434 mg/m3	CA QC 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** : In the case of vapour formation use a respirator with an approved filter.  
In the case of dust or aerosol formation use respirator with an approved filter.  
A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**

**Remarks**

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**

: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection**

: Wear as appropriate:  
Impervious clothing  
Safety shoes



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Hygiene measures : Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).  
: 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 : aerosol

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 : -20 °C

Value for Component

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : Static-accumulating flammable liquid.

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : 36 %(V)  
GLP: Calculated Explosive Limit

Lower explosion limit / Lower flammability limit : 1 %(V)  
GLP: Calculated Explosive Limit

Vapour pressure : > 9,999 hPa (21 °C)  
Value for Component

Relative vapour density : No data available

Relative density : No data available

Density : 0.756 g/cm<sup>3</sup> (21.1 °C)

Solubility(ies)



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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	:	No data available
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	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks. excessive heat
Incompatible materials	:	Acids alkalis aluminum Amines Ammonia fluorides halogens Lead perchloric acid peroxides Reducing agents sodium strong bases Strong oxidizing agents Zinc Peroxides
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



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Eye Contact

Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:**

**ACETONE:**

Acute oral toxicity : LD50 (Rat, female): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 7,426 mg/kg

**XYLENE:**

Acute oral toxicity : LD50 (Rat): 3,523 - 8,600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29 mg/l, 6700 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 1,700 mg/kg

**METHANOL:**

Acute oral toxicity : LDLo (Human): 300 mg/kg  
Assessment: The component/mixture is classified as acute oral toxicity, category 3.

Acute inhalation toxicity : Test atmosphere: vapour  
Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.

Acute dermal toxicity : Assessment: The component/mixture is classified as acute dermal toxicity, category 3.

**ETHYL BENZENE:**

Acute oral toxicity : LD50 (Rat): ca. 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 17,800 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks : May cause skin irritation in susceptible persons.

Result : Repeated exposure may cause skin dryness or cracking.



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**Components:**

**ACETONE:**

Result : Slight, transient irritation  
Result : Repeated exposure may cause skin dryness or cracking.

**CARBON DIOXIDE:**

Assessment : No skin irritation  
Result : No skin irritation

**XYLENE:**

Assessment : Irritating to skin.  
Result : Irritating to skin.

**METHANOL:**

Species : Rabbit  
Result : No skin irritation

**ETHYL BENZENE:**

Result : Irritating to skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

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

**Components:**

**ACETONE:**

Result : Irritating to eyes.  
Assessment : Irritating to eyes.

**CARBON DIOXIDE:**

Result : No eye irritation

**XYLENE:**

Result : Irritating to eyes.

**METHANOL:**

Species : Rabbit  
Result : Slight, transient irritation

**ETHYL BENZENE:**

Result : Irritating to eyes.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.



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## **Components:**

### **METHANOL:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

May cause drowsiness or dizziness.

Causes damage to organs (Central nervous system, Eyes).

## **Components:**

### **ACETONE:**

Exposure routes : Inhalation  
Target Organs : Nervous system  
Assessment : May cause drowsiness or dizziness.

### **XYLENE:**

Assessment : May cause respiratory irritation.

Assessment : May cause drowsiness or dizziness.

### **METHANOL:**

Target Organs : Central nervous system, Eyes  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

### **STOT - repeated exposure**

May cause damage to organs (Auditory system) through prolonged or repeated exposure.

## **Components:**

### **ETHYL BENZENE:**

Target Organs : Auditory system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

## **Product:**

No aspiration toxicity classification

## **Components:**

### **ACETONE:**

May be harmful if swallowed and enters airways.



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### XYLENE:

May be fatal if swallowed and enters airways.

### ETHYL BENZENE:

May be fatal if swallowed and enters airways.

### Further information

#### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

#### Components:

##### METHANOL:

Remarks : Central nervous system

##### ETHYL BENZENE:

Remarks : Central nervous system

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

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:

##### ACETONE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,740 - 6,330 mg/l  
Exposure time: 96 h  
Test Type: static test  
  
LC50 (Pimephales promelas (fathead minnow)): 8,733 - 9,482 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to algae : NOEC (Microcystis aeruginosa (blue-green algae)): 530 mg/l  
Exposure time: 8 d  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2,112 mg/l  
Exposure time: 28 d  
Test Type: flow-through test



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### XYLENE:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 - < 1,000 mg/l  
Exposure time: 24 h  
Test Type: static test

### METHANOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 18,000 - 20,000 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test

### ETHYL BENZENE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.1 - 15.6 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l  
Exposure time: 96 h  
Test Type: Renewal

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.37 - 4.4 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l  
End point: Growth inhibition  
Exposure time: 96 h

### Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

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

### Persistence and degradability

#### Components:

##### ACETONE:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### XYLENE:

Physico-chemical removability : Remarks: The product evaporates readily.

##### METHANOL:



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Biodegradability : Result: Readily biodegradable.  
Biodegradation: 99 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

ETHYL BENZENE:  
Biodegradability : Result: Readily biodegradable.  
Biodegradation: 70 - 80 %  
Exposure time: 28 d

No data available

**Bioaccumulative potential**

**Components:**

**ACETONE:**

Partition coefficient: n-octanol/water : log Pow: -0.24

**XYLENE:**

Partition coefficient: n-octanol/water : log Pow: 3.16

**METHANOL:**

Partition coefficient: n-octanol/water : log Pow: -0.77

**ETHYL BENZENE:**

Partition coefficient: n-octanol/water : log Pow: 3.15

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

**Components:**

---

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

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

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.



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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No.	: UN 1950
Proper shipping name	: AEROSOLS
Class	: 2.1
Packing group	: Not assigned by regulation
Labels	: Flammable Gas
Packing instruction (cargo aircraft)	: 203
Packing instruction (passenger aircraft)	: 203

##### IMDG-Code

UN number	: UN 1950
Proper shipping name	: AEROSOLS
Class	: 2.1
Packing group	: Not assigned by regulation
Labels	: 2.1
EmS Code	: F-D, S-U
Marine pollutant	: no

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

Not applicable for product as supplied.

#### National Regulations

##### TDG

UN number	: UN 1950
Proper shipping name	: AEROSOLS
Class	: 2.1
Packing group	: Not assigned by regulation
Labels	: 2.1
ERG Code	: 126
Marine pollutant	: no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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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**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
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On TSCA Inventory

**Inventories**

AICS (Australia), AIIIC (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 : 000000132750

NFPA:	HMIS III:

**NFPA Flammable and Combustible Liquids Classification**

Not applicable



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**Full text of H-Statements**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

**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).

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



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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