

|                                                                                  |  |                           |
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| <b>SAFETY DATA SHEET</b>                                                         |  | Revision Date: 07/13/2017 |
|                                                                                  |  | Print Date: 12/7/2017     |
|                                                                                  |  | SDS Number: R0218838      |
| VR1 Racing™ SAE 10W-30 Racing Oil                                                |  | Version: 1.3              |
| 822388                                                                           |  |                           |

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**  
Trade name : VR1 Racing™ SAE 10W-30  
Racing Oil

|                                                                                                                                                                                          |                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Details of the supplier of the safety data sheet</b><br>Valvoline LLC<br>100 Valvoline Way<br>Lexington, KY 40509<br>United States of America (USA)<br>1-800-TEAMVAL (1-800-8326-825) | <b>Emergency telephone number</b><br>1-800-VALVOLINE (1-800-825-8654)<br><br><b>Regulatory Information Number</b><br>1-800-TEAMVAL (1-800-8326-825)<br><br><b>Product Information</b><br>1-800-TEAMVAL (1-800-8326-825) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**  
This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

**GHS label elements**  
This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

**Other hazards**  
None known.

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

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**

| Chemical name                            | CAS-No.    | Classification    | Concentration (%) |
|------------------------------------------|------------|-------------------|-------------------|
| Mineral Oil                              |            | Asp. Tox. 1; H304 | 5.6959            |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | Asp. Tox. 1; H304 | 3.2075            |
| Lubricating oils (petroleum),            | 64742-58-1 | This material is  | 1.8932            |

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|                                                        |            |                                                                                                                          |        |
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| hydrotreated                                           |            | considered hazardous under the OSHA Hazard Communication Standard criteria, based on hazard(s) not otherwise classified. |        |
| Distillates (Petroleum), Hydrotreated Heavy Paraffinic | 64742-54-7 | Asp. Tox. 1; H304                                                                                                        | 1.2211 |

**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, 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:  
acne

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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 (CO<sub>2</sub>)  
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  
nitrogen oxides (NO<sub>x</sub>)
- 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.
- 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.

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**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<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|-----------------------------------------------------------|------------|----------------------------------|---------------------------------------------------|-----------|
| HYDROTREATED LIGHT<br>PARAFFINIC DISTILLATE               | 64742-55-8 | TWA                              | 5 mg/m3<br>Mist                                   | OSHA Z-1  |
|                                                           |            | TWA                              | 5 mg/m3<br>Inhalable fraction                     | ACGIH     |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | OSHA P0   |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | NIOSH REL |
|                                                           |            | ST                               | 10 mg/m3<br>Mist                                  | NIOSH REL |
|                                                           |            | PEL                              | 5 mg/m3<br>particulate                            | CAL PEL   |
| Lubricating oils (petroleum),<br>hydrotreated             | 64742-58-1 | TWA                              | 5 mg/m3<br>Inhalable fraction                     | ACGIH     |
| Distillates (Petroleum),<br>Hydrotreated Heavy Paraffinic | 64742-54-7 | TWA                              | 5 mg/m3<br>Mist                                   | OSHA Z-1  |
|                                                           |            | TWA                              | 5 mg/m3<br>Inhalable fraction                     | ACGIH     |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | OSHA P0   |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | NIOSH REL |
|                                                           |            | ST                               | 10 mg/m3<br>Mist                                  | NIOSH REL |
|                                                           |            | PEL                              | 5 mg/m3<br>particulate                            | CAL PEL   |

**Hazardous components without workplace control parameters**

| Components  | CAS-No. |
|-------------|---------|
| Mineral Oil |         |

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

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

Hygiene measures : General industrial hygiene practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : 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 : > 424.9 °F / > 218.3 °C  
(1013 hPa)

Flash point : > 390 °F / > 199 °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)  
GLP: Calculated Explosive Limit

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

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Vapour pressure : &lt; 1 mmHg (68.00 °F)

1.3333333 hPa (20 °C)  
Calculated Vapor Pressure

Relative vapour density : &gt; 1.000AIR=1

Relative density : No data available

Density : 0.8722 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

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

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 77 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 : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide  
Hydrocarbons  
Nitrogen oxides (NOx)

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:**

Lubricating oils (petroleum), hydrotreated:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: Not classified as acutely toxic by ingestion under GHS.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

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

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

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

Lubricating oils (petroleum), hydrotreated:

Result: No skin irritation

Result: Repeated exposure may cause skin dryness or cracking.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

Lubricating oils (petroleum), hydrotreated:

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Result: Slight, transient irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:  
Result: No eye 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**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

Mineral Oil:

May be fatal if swallowed and enters airways.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

May be fatal if swallowed and enters airways.

#### **Further information**

##### **Product:**

Remarks: No data available

#### **Carcinogenicity:**

##### **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 identified as a carcinogen or potential carcinogen by OSHA.

##### **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.

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## **SECTION 12. ECOLOGICAL INFORMATION**

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**Ecotoxicity****Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

**Components:**

Lubricating oils (petroleum), hydrotreated:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Brine shrimp (Artemia salina)): > 22,500 mg/l  
Exposure time: 48 h

Ecotoxicology Assessment

Chronic aquatic toxicity : No toxicity at the limit of solubility

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EL50 (Aquatic invertebrates): > 10,000 mg/l  
Exposure time: 48 hToxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

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

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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

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

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

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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 |
|                     |

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

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

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

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

**MX\_DG**

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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**

| Components | CAS-No.   | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|------------|-----------|-----------------------|--------------------------------|
| ZINC       | 7440-66-6 | 1000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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**SARA 313**

|                                                                                                     |            |        |
|-----------------------------------------------------------------------------------------------------|------------|--------|
| Zinc O,O,O',O'-<br>tetrakis(1,3-dimethylbutyl)<br>bis(phosphorodithioate)                           | 2215-35-2  | 0.61 % |
| PHOSPHORODITHIOIC<br>ACID, MIXED O,O-<br>BIS(1,3-DIMETHYLBUTYL<br>AND ISO-PR) ESTERS,<br>ZINC SALTS | 84605-29-8 | 0.24 % |
| ZINC DIALKYL<br>DITHIOPHOSPHATE                                                                     | 68649-42-3 | 0.15 % |

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or 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 : Not in compliance with the inventory

ENCS : Contact your sales representative for additional information.

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

IECSC : q (quantity restricted)

PICCS : Not in compliance with the inventory

TSCA : On TSCA Inventory

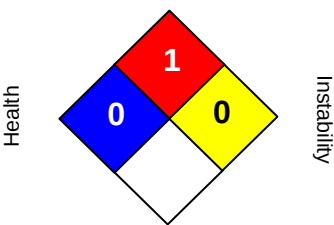
#### Inventories

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

## SECTION 16. OTHER INFORMATION

#### Further information

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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><b>HEALTH</b></td><td><b>0</b></td></tr> <tr> <td><b>FLAMMABILITY</b></td><td><b>1</b></td></tr> <tr> <td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr> </table> <p>0 = not significant, 1 = Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | <b>HEALTH</b> | <b>0</b> | <b>FLAMMABILITY</b> | <b>1</b> | <b>PHYSICAL HAZARD</b> | <b>0</b> |
| <b>HEALTH</b>                                                                                                                                                   | <b>0</b>                                                                                                                                                                                                                                                                                         |               |          |                     |          |                        |          |
| <b>FLAMMABILITY</b>                                                                                                                                             | <b>1</b>                                                                                                                                                                                                                                                                                         |               |          |                     |          |                        |          |
| <b>PHYSICAL HAZARD</b>                                                                                                                                          | <b>0</b>                                                                                                                                                                                                                                                                                         |               |          |                     |          |                        |          |

#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

#### Full text of H-Statements

H304 May be fatal if swallowed and enters airways.

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.

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The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 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

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WHMIS : Workplace Hazardous Materials Information System