

# Workplace Health and Safety Bulletin



## International Format for Material Safety Data Sheets

Canada's occupational health and safety agencies have agreed to allow the use of an internationally recognized format for material safety data sheets (MSDSs). In addition to the nine headings currently allowed in the federal Controlled Products Regulations, companies may use MSDS headings suggested by the International Labour Office (ILO), International Organization for Standardization (ISO), European Economic Community (EEC), or American National Standards Institute (ANSI).

To comply with existing legislation, MSDSs using the international format must:

- (1) use all 16 of the headings, in correct order, listed in Tables 1 through 4 for either the ILO, ISO, EEC or ANSI heading systems;
- (2) include all of the information required in Schedule I, Column III of the Controlled Products Regulations (see Appendix A);
- (3) include the following information under the "Regulatory Information" heading:  
*"This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations"; and*

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- (4) address all headings and sub-headings by disclosing the relevant information or by declaring that the information is not available or not applicable, as appropriate.

Table 1 Chemical Safety Data Sheets (ILO)

- (a) Chemical Product and Company Identification
- (b) Composition/Information on Ingredients
- (c) Hazards Identification
- (d) First Aid Measures
- (e) Fire-Fighting Measures
- (f) Accidental Release Measures
- (g) Handling and Storage
- (h) Exposure Controls/Personal Protection
- (i) Physical and Chemical Properties
- (j) Stability and Reactivity
- (k) Toxicological Information
- (l) Ecological Information
- (m) Disposal Considerations
- (n) Transport Information
- (o) Regulatory Information
- (p) Other Information

Table 2 Safety Data Sheet for Chemical Products –  
Content and Order of Sections (ISO)

- 1. Chemical Product and Company Identification
- 2. Composition/Information on Ingredients
- 3. Hazards Identification
- 4. First Aid Measures
- 5. Fire-Fighting Measures
- 6. Accidental Release Measures
- 7. Handling and Storage
- 8. Exposure Controls/Personal Protection
- 9. Physical and Chemical Properties
- 10. Stability and Reactivity
- 11. Toxicology Information
- 12. Ecological Information
- 13. Disposal Considerations
- 14. Transport Information
- 15. Regulatory Information
- 16. Other Information

Table 3 Safety Data Sheet (91/155/EEC)

1. Identification of the Substances/Preparation and of the Company/Undertaking
2. Composition/Information on Ingredients
3. Hazards Identification
4. First Aid Measures
5. Fire-Fighting Measures
6. Accidental Release Measures
7. Handling and Storage
8. Exposure Controls/Personal Protection
9. Physical and Chemical Properties
10. Stability and Reactivity
11. Toxicology Information
12. Ecological Information
13. Disposal Information
14. Transport Information
15. Regulatory Information
16. Other Information

Table 4 Material Safety Data Sheet (ANSI Standard Z400.1-1998)

1. Chemical Product and Company Identification
2. Composition and Information on Ingredients
3. Hazards Identification
4. First Aid Measures
5. Fire Fighting Measures
6. Accident Release Measures
7. Handling and Storage
8. Exposure Controls, Personal Protection
9. Physical and Chemical Properties
10. Stability and Reactivity
11. Toxicological Information
12. Ecological Information
13. Disposal Information
14. Transport Information
15. Regulatory Information
16. Other Information

# Appendix A

## Controlled Products Regulations(Federal)

### Schedule I (Section 12)

#### INFORMATION TO BE DISCLOSED ON A MATERIAL SAFETY DATA SHEET


Item	Column I Category	Column II Suggested Headings	Column III Information in respect of controlled products
1.	Hazardous Ingredients	Hazardous Ingredients	(1) Information required by subparagraphs 13(a)(i) to (iv) of the Act (2) CAS registry number and product identification number (3) LD <sub>50</sub> (species and route) (4) LC <sub>50</sub> (species and route)
2.	Preparation Information	Preparation Information	(1) Name and phone number of the group, department or party responsible for the preparation of the material safety data sheet (2) Date of preparation of the material safety data sheet
3.	Product Information	Product Information	(1) Manufacturer's name, street address, city, province, postal code and emergency telephone number (2) Supplier identifier, the supplier's street address, city, province, postal code and emergency telephone number (3) Product identifier (4) Product use
4.	Physical Data	Physical Data	(1) Physical state (i.e. gas, liquid or solid) (2) Odour and appearance (3) Odour threshold (4) Specific gravity (5) Vapour pressure (6) Vapour density (7) Evaporation rate (8) Boiling point (9) Freezing point (10) pH (11) Coefficient of water/oil distribution


Item	Column I Category	Column II Suggested Headings	Column III Information in respect of controlled products
5.	Fire or Explosion Hazard	Fire or Explosion Hazard	(1) Conditions of flammability (2) Means of extinction (3) Flash point and method of determination (4) Upper flammable limit (5) Lower flammable limit (6) Auto-ignition temperature (7) Hazardous combustion products (8) Explosion data sensitivity to mechanical impact (9) Explosion data sensitivity to static discharge
6.	Reactivity Data	Reactivity Data	(1) Conditions under which the product is chemically unstable (2) Name of any substance or class of substance with which the product is incompatible (3) Conditions of reactivity (4) Hazardous decomposition products
7.	Toxicological Properties	Toxicological Properties	(1) Route of entry, including skin contact, skin absorption, eye contact, inhalation and ingestion (2) Effects of acute exposure to product (3) Effects for chronic exposure to product (4) Exposure limits (5) Irritancy of product (6) Sensitization of product (7) Carcinogenicity (8) Reproductive toxicity (9) Teratogenicity (10) Mutagenicity (11) Name of toxicologically synergistic products
8.	Preventive Measures	Preventive Measures	(1) Personal protective equipment to be used (2) Specific engineering controls to be used (3) Procedures to be followed in case of leak or spill (4) Waste disposal (5) Handling procedures and equipment (6) Storage requirements (7) Special shipping information
9.	First Aid Measures	First Aid Measures	(1) Specific first aid measures

## Contact us:

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### Province-Wide Contact Centre

 Edmonton & surrounding  
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780-415-8690

 Throughout Alberta:  
1-866-415-8690



Deaf or hearing impaired  
▪ In Edmonton: **780-427-9999**  
or  
▪ **1-800-232-7215**  
throughout Alberta

### Web Site



[www.worksafely.org](http://www.worksafely.org)

## Getting copies of OHS Act, Regulation & Code:

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### Workplace Health and Safety



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Dial 310-0000, then the area code and telephone number you want to reach

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